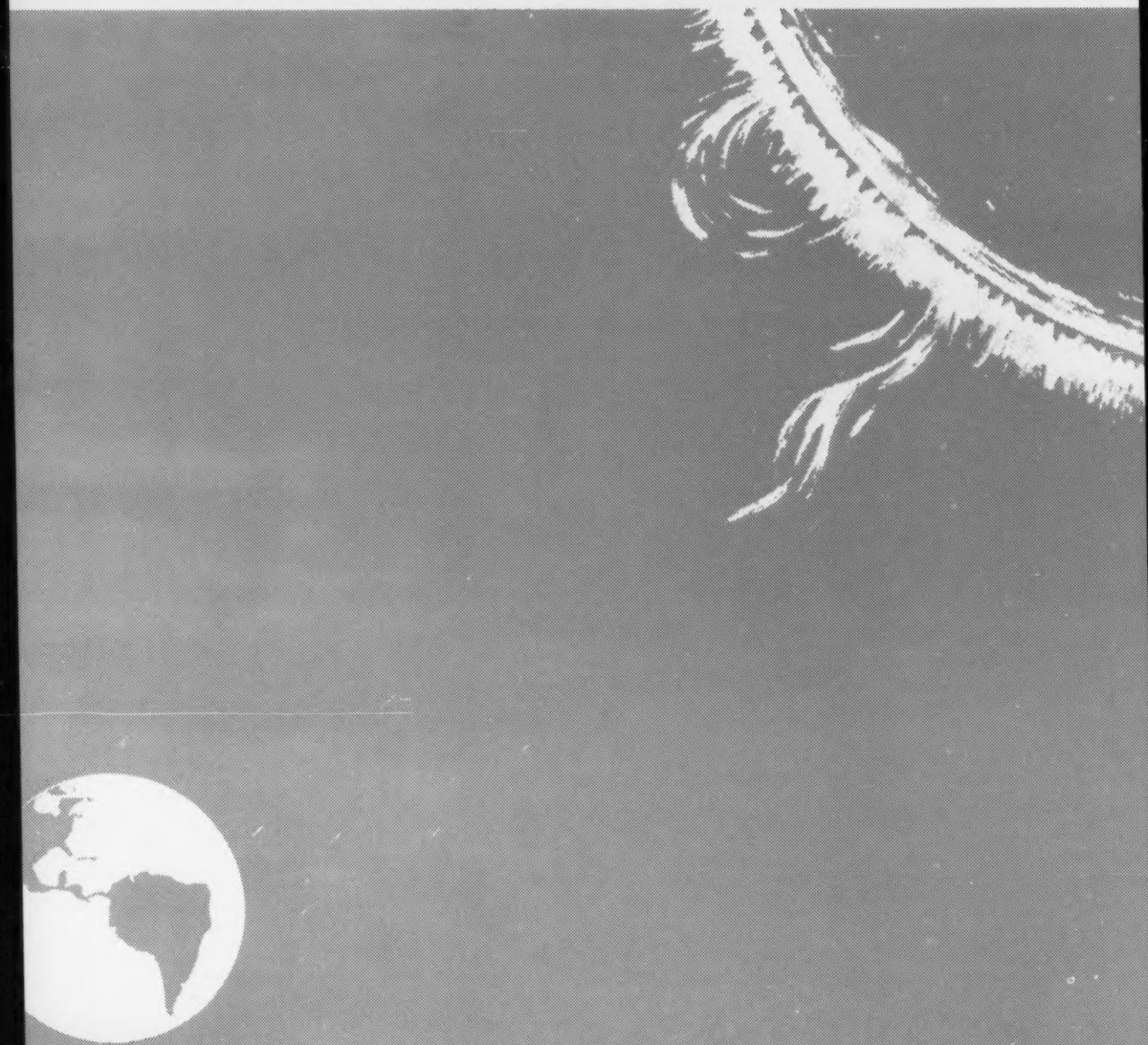
September 1975 Number 373-Part I

Solar-Geophysical Data prompt reports

Data for August 1975–July 1975

Explanation of Data Reports Issued as Number 366 (Supplement) Febuary 1975



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Solar - Geophysical Data

NO. 373 SEPTEMBER 1975

Part I (Prompt Reports)

373 DATA FOR
AUGUST 1975
JULY 1975

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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SOLAR - GEOPHYSICAL DATA

No. 373

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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Note: A = Part I, B = Part II.

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ALERT PERIODS

INTERNATIONAL URSIGRAM
AND WORLD DAYS SERVICE

AUGUST 1975

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS)

BOULDER 21/1525Z SOFLARE 1B N28W75 211522 IN PROGRESS. TEN FLARE 120 UNITS 211520Z DURATION 5 MINUTES.
BOULDER 22/0210Z SOFLARE 1B N28W80 210119 DURATION 19 MINUTES.

SUMMARY OF THE GEOALERT WWA MESSAGES

Message serial number	Date of issue	Date of observation	Wolf number	10 cm solar flux	A index	Active Regions: Location Lat-Long	No. of Flares: Total	M	X	Outstanding events	Forecasts: Date	Location Lat-Long	Desc*	Alert Situations
213	01	31	70	88	04	N07W64	0	0	0		01	N07W64	Q	SOLQUIET MAGQUIET
						N08W86	4	0	0			N08W86	Q	
						N03E59	0	0	0			N03E59	Q	
						N05E58	6	0	0			N05E58	E	
214	02	01	67	89	12	N08W77	1	0	0	STRATWARM ALERT	02	N08W77	Q	SOLALERT 02/04 MAGALERT RECURRENCE
						N03E45	0	0	0			N03E45	Q	04/06. STRATWARM ALERT /FRIDAY/
						N06E43	5	0	0			N06E43	E	STRATWARM EXISTS ANTARCTICA. EXTEN-
						N05E90	1	1	0			N05E90	CE	SIVE WARM SYSTEM SLOPING WESTWARD
						N08W98	2	0	0			N08W98	CE	WITH HEIGHT WITH UNUSUALLY STRONG
														WARMING AROUND 73S 50E JULY 29 AT
														2 mb LEVEL. WESTWARD RETROGRESSION
														INDICATED AFTER 25 JULY.
215	03	02	69	93	08	N03E29	8	0	0		03	N03E29	Q	SOLALERT 03/05
						N06E26	4	0	0			N06E26	E	MAGALERT 04/06
						N06E81	6	3	0			N06E81	E	
						N08W90	0	0	0			N08W90	Q	
216	04	03	71	96	04	N05E15	4	1	0		04	N05E15	E	SOLALERT 04/06
						N06E68	6	2	0			N06E68	E	MAGALERT 04/06
217	05	04	192	102	04	N06E01	2	0	0		05	N06E01	E	SOLALERT 05/06
						N08E58	3	0	0			N08E58	E	MAGALERT 05/07
218	06	05	127	105	20	N05W10	2	0	0		06	N05W10	Q	SOLALERT 06/08
						N07W14	1	0	0			N07W14	E	MAGALERT 06/07
						N06E42	3	0	0			N06E42	E	
						N09W04	0	0	0			N09W04	Q	
219	07	06	176	125	09	N07W27	12	0	0		07	N07W27	E	SOLALERT 07/08
						N05E28	0	0	0			N05E28	E	MAGALERT 07/08
220(sent as 219)	08	07	163	120	06	N07W38	22	3	0		08	N07W38	E	SOLALERT 08/10
						N07E18	1	0	0			N07E18	E	MAGNIL
221(sent as 220)	09	08	180	120	16	N06W50	4	0	0		09	N06W50	E	SOLALERT 09/11
						N09E06	0	0	0			N09E06	E	MAGQUIET
						N10W43	0	0	0			N10W43	Q	
						N12W00	0	0	0			N12W00	Q	
222	10	09	168	113	16	N06W63	5	0	0		10	N06W63	Q	SOLALERT 10/12
						N09W06	6	0	0			N09W06	Q	MAGQUIET
						N10W57	1	0	0			N10W57	Q	
						N12W13	1	0	0			N12W13	Q	
223	11	10	139	113	19	N05W76	6	1	0		11	N05W76	E	SOLALERT 11/12
						N07W22	6	1	0			N07W22	E	MAGQUIET
						N09W75	0	0	0			N09W75	Q	
						N12W25	1	0	0			N12W25	Q	
224	12	11	162	104	08	N05W92	0	0	0		12	N05W92	E	SOLNIL
						N10W37	0	0	0			N10W37	E	MAGQUIET
						N09W89	0	0	0			N09W89	Q	
						N13W40	1	0	0			N13W40	Q	
						S07E45	0	0	0			N07E45	Q	
225	13	12	125	103	04	N10W49	13	0	0		13	N10W49	E	SOLQUIET
						S35W57	0	0	0			S35W57	Q	MAGQUIET
226	14	13	xxx	95	04	N08W60	11	0	0		14	N08W60	E	SOLQUIET MAGQUIET
227	15	14	39	89	18	N10W71	17	0	0		15	N10W71	Q	SOLQUIET MAGQUIET
228	16	15	40	84	14	N10W84	2	0	0		16	N10W84	DQ	SOLQUIET
						S08W07	0	0	0			S08W07	Q	MAGQUIET
						S16E78	0	0	0			S16E78	Q	
229	17	16	36	81	05	S08W13	1	0	0		17	S08W13	Q	SOLQUIET
						S16E55	2	0	0			S16E55	Q	MAGQUIET
						N10W96	1	0	0			N10W96	DQ	
230	18	17	36	77	11	S05W30	0	0	0		18	S05W30	Q	SOLQUIET
						S14E36	0	0	0			S14E36	Q	MAGQUIET
231	19	18	38	74	05	S06W40	0	0	0		19	S06W40	Q	SOLQUIET
						S12E24	0	0	0			S12E24	Q	MAGQUIET
						N22W25	0	0	0			N22W25	Q	
232	20	19	11	75	06	S12W15	0	0	0		20	S12W15	Q	SOLQUIET MAGQUIET
233	21	20	51	75	10	S11W00	0	0	0		21	S11W00	Q	SOLQUIET
						N28W67	1	0	0			N28W67	Q	MAGALERT 21/22
						N07E09	0	0	0			N07E09	Q	
						N08E23	0	0	0			N08E23	Q	
234	22	21	40	78	22	S04W82	2	0	0		22	S04W82	E	SOLALERT 22/23
						N28W80	8	4	1			N28W80	E	MAGALERT 22/23
						N07E10	0	0	0			N07E10	Q	

ALERT PERIODS

INTERNATIONAL URSIGRAM
AND WORLD DAYS SERVICE

AUGUST 1975

SUMMARY OF THE GEOALERT WWA MESSAGES

Message serial number	Date of issue	Date of observation	Wolf number	10 cm solar flux	A index	Active Regions				Outstanding events	Forecasts			Alert Situations
						Location Lat-Long	No. of Flares Total	M	X		Date	Location Lat-Long	Desc*	
235	23	22	12	77	13	N07E02	0	0	0		23	N07E02	Q	SOLNIL
						N28W90	15	6	0			N28W90	E	MAGALERT 23/24
236	24	23	26	75	11	N09W16	4	0	0		24	N09W16	Q	SOLQUIET
						N09W50	0	0	0			N09W50	Q	MAGNIL
237	25	24	14	75	05	N10W29	2	0	0		25	N10W29	Q	SOLQUIET MAGQUIET
238	26	25	39	79	09	N13W15	2	0	0		26	N13W15	Q	SOLQUIET MAGQUIET
						N02E76	0	0	0			N02E76		
239	27	26	35	80	04	N10W57	0	0	0		27	N10W57	Q	SOLQUIET MAGQUIET
						S14W28	2	0	0			S14W28	Q	
240	28	27	34	82	08	S12W42	0	0	0		28	S12W42	Q	SOLQUIET MAGQUIET
241	29	28	18	82	02	S12W55	6	0	0		29	S12W55	Q	SOLQUIET MAGQUIET
242	30	29	41	83	28	S13W71	1	0	0		30	S13W71	Q	SOLQUIET
						N09E33	0	0	0			N09E33	Q	MAGALERT 29/31
						S01E20	0	0	0			S01E20	Q	
243	31	30	34	86	16	S01E17	0	0	0		31	S01E17	Q	SOLQUIET
						N07E75	0	0	0			N07E75	Q	MAGALERT MINOR 31
						S15W85	0	0	0			S15W85	Q	
244	01	31	26	85	07	S01E06	0	0	0		01	S01E06	Q	SOLQUIET
						N06E58	0	0	0			N06E58	Q	MAGALERT 01/03

* Q=Quiet E=Eruptive A=Active P=Proton C=Caution D=Doubtful O.G.=Other Groups

RELATIVE SUNSPOT NUMBERS

ZURICH, R_z

	1974 FINAL				1975 PROVISIONAL							
DAY	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	8	61	18	0	30	0	0	0	26	7	23	37
2	8	53	27	0	30	22	7	0	33	11	18	36
3	16	46	39	9	28	28	14	0	29	8	22	46
4	37	60	45	16	19	27	11	0	28	7	22	78
5	40	85	36	17	18	20	14	21	28	7	23	93
6	44	83	25	8	23	26	14	9	20	7	33	104
7	38	84	22	7	32	34	7	15	16	0	23	102
8	32	97	14	0	29	29	18	17	0	0	19	89
9	63	107	7	0	37	22	19	9	0	0	16	83
10	74	114	24	9	31	18	20	13	9	0	23	80
11	80	118	27	21	31	13	20	0	0	9	29	72
12	88	92	24	31	31	18	15	0	0	0	33	45
13	74	76	16	34	32	9	15	0	0	0	49	52
14	67	63	9	33	11	8	17	0	7	0	44	34
15	64	48	16	35	20	8	18	0	7	8	43	31
16	68	41	20	40	17	8	30	0	8	19	39	26
17	71	28	20	36	16	0	30	0	0	17	23	19
18	66	16	18	34	20	0	24	0	8	12	29	16
19	51	9	34	43	23	0	23	0	0	16	36	8
20	31	11	40	40	18	7	16	0	0	0	26	22
21	13	12	40	40	16	8	9	0	0	7	30	23
22	0	9	44	37	16	0	0	0	8	0	27	0
23	7	7	44	28	15	0	0	7	8	12	19	8
24	11	7	37	26	7	12	0	8	7	20	30	8
25	11	8	29	9	7	9	0	7	0	24	33	11
26	13	16	25	8	7	0	13	7	0	33	30	16
27	19	30	23	6	0	0	7	26	7	38	29	18
28	23	27	13	20	7	0	0	19	13	36	26	10
29	38	22	7	16	7		0	16	0	23	20	10
30	58	22	7	19	7		7	20	0	22	27	21
31		16		13	0		8		8		34	21
MEAN	40.2	47.1	25.0	20.5	18.7	11.6	12.0	6.2	8.7	11.4	28.3	39.3

1974 yearly mean = 34.5

DAILY SOLAR SOLAR FLUX AT 2800 MHz
OTTAWA ARO

FLUX ADJUSTED TO 1 A.U., S_a

	1974				1975							
DAY	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	77.8	93.1	90.2	79.7	78.1	70.8	70.7	70.2	76.3	71.4	78.7	91.6
2	79.4	94.6	92.0	78.7	75.8	72.3	72.4	71.2	81.1	73.0	76.8	95.4
3	79.2	93.4	96.2	76.7	77.1	74.3	73.4	72.2	79.6	70.8	77.1*	97.0*
4	81.0	100.5	99.5	74.7	74.4	75.4	72.8	73.0	79.6	70.4	76.8	104.6
5	81.5	113.3*	97.6*	73.2	73.7	76.5	71.3	73.7	78.4	69.3	76.8	107.9
6	82.2	115.0	92.3	71.9	73.8	81.1	72.4	73.7	75.9	68.2	76.1	120.0*
7	85.4	114.5*	85.6	71.1	75.7	79.4	71.9	74.3	73.6	68.1	74.1	123.2
8	93.4	125.2	82.0	69.6	77.7	78.8	72.5	73.6	71.9	67.5	74.0	123.7
9	96.0	128.9	78.9	69.6	79.9	77.1	73.8	73.4	70.6	67.7	73.3	115.9
10	102.0	129.3*	78.4	70.4	80.5	76.7	73.3	72.4	70.1	68.8	73.0	116.5
11	104.6	137.5*	77.3	76.2	81.2	74.8	73.0	72.3	69.8	68.1	77.6	107.3
12	105.6	144.1	79.1	77.9	82.4	74.9	74.2	70.8	69.6	68.4	82.7	104.5*
13	106.8*	126.6	76.1	78.0	80.4	73.7	75.6*	70.7	69.1	67.9	88.5*	98.0
14	114.1	113.2*	77.7	78.2	77.7	72.0	75.0	69.7	68.7	68.5	89.0	90.9*
15	103.6	103.7*	80.0	83.2	77.4	69.7	73.4	69.7	68.0	68.9	85.6	86.0
16	102.0*	94.9	82.5	88.3	76.5	71.4	76.0	69.2	68.5	71.4	83.6	82.8
17	100.3	83.8	84.6	88.3	74.7	69.3	75.3	69.6	68.3	70.2	81.2	79.8
18	100.0	81.0	86.5	90.3	75.8	68.3	74.2	68.3	68.7	70.2	82.8	76.4
19	91.7	75.2	96.0	91.9	74.1	70.0	72.9	67.5	68.9	71.0	81.9	76.7
20	85.9*	75.5	95.6	87.3	73.8	69.5	71.9	68.0	68.6	72.5	83.3	77.2
21	82.7	73.9	96.2	86.0	74.5	68.9	71.2	68.2	69.7	68.7	83.1	80.8
22	81.0	72.6	98.7	84.4*	73.6	68.3	69.3	67.8	70.8	69.9	82.7	78.5
23	74.6	74.0	98.1	83.0	72.7	68.3	67.6	68.7	70.0	72.9	82.0	76.8
24	72.8	74.7	95.9	80.1	71.0	68.6	67.4	69.3	70.6	73.9	79.3	77.0
25	72.8	76.9	94.5	78.9	73.3	69.4	67.5	71.6	70.2	77.7	79.8	80.6
26	75.4	80.7	92.2	75.8	78.5	69.8	68.6	72.1	69.0	79.8	80.0	81.3
27	77.0	80.0	90.8	74.3	78.1	69.4	67.3	74.4	70.5	81.5	78.5	83.6
28	80.7	81.6	86.6	73.7	73.7	68.6	67.8	74.8	70.6	80.7	76.5	83.3
29	90.7	81.6	83.8	74.1	73.4		69.0	73.2	71.0	79.4	75.5	84.7
30	91.5	82.7	82.0	74.5	78.5		69.0	73.4	71.0	78.3	78.9	86.2
31		86.7*		76.1	78.1		70.5		71.1		81.9*	86.7
MEAN	88.7	97.1	88.3	78.0	75.0	72.4	71.7	71.2	71.0	71.9	74.7	92.7

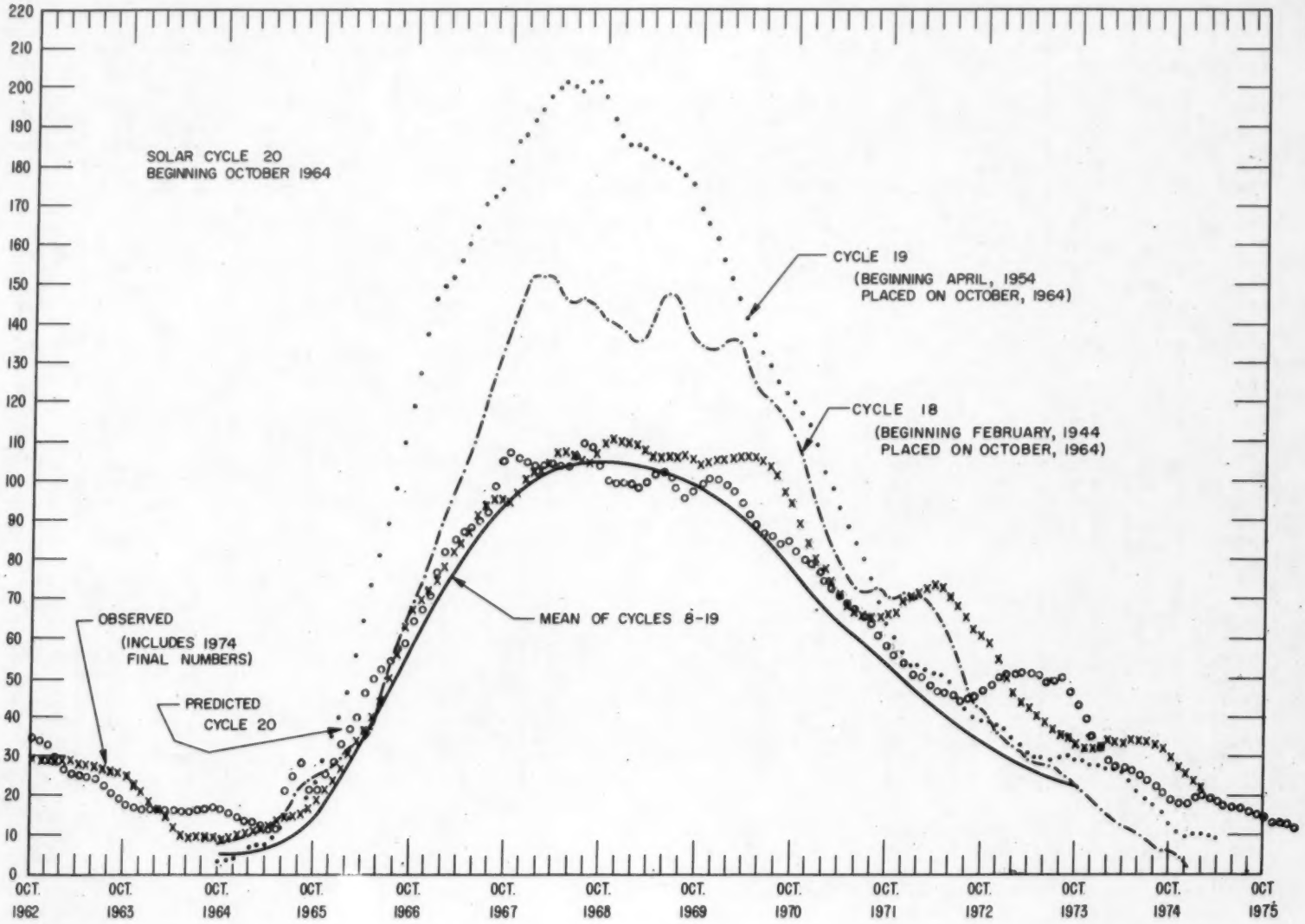
* adjusted for burst

DAILY SOLAR INDICES

AUGUST 1975

AUG 1975	YEAR DAY	BARTELS 27-DAY CYCLE NUMBER	SUNSPOT NUMBERS		OBSERVED FLUX	SOLAR FLUX ADJUSTED TO 1 A.U.								
			R_Z	$R_{A'}$	OTTAWA 2800	AFCRL 15400	AFCRL 8800	AFCRL 4995	OTTAWA 2800	AFCRL 2695	AFCRL 1415	AFCRL 606	AFCRL 410	AFCRL 245
1	213	25	37	39	88.9	525	284	136	91.6	85.4	48.7	36.4	21.0	8.7
2	214	26	36	42	92.6	529	286	140	95.4	88.2	51.7	39.4	23.5	10.3
3	215	27	46	56	94.2*	535	295	148	97.0*	94.2	57.7	42.3	25.4	11.0
4	216	1	78	76	101.7	525	295	155	104.6	100.6	57.6	40.5	25.6	10.2
5	217	2	93	86	104.9	530	297	154	107.9	102.0	60.0	41.6	26.9	16.9
6	218	3	104	102	116.6*	530	310	164	120.0*	117.0	64.6	44.5	32.8	16.2
7	219	4	102	99	119.8	531	301	162	123.2	111.8	66.1	44.5	29.5	15.1
8	220	5	89	94	120.3	525	294	155	123.7	110.2	66.0	43.2	28.2	22.2
9	221	6	83	84	112.7	523	286	155	115.9	110.1	62.6	41.1	24.6	10.5
10	222	7	80	88	113.4	528	291	161	116.5	110.1	63.5	41.2	24.4	13.9
11	223	8	72	70	104.5	521	269	144	107.3	102.1	60.1	38.8	25.8	22.3
12	224	9	45	52	101.8*	525	283	147	104.5*	100.1	57.9	38.8	22.7	10.1
13	225	10	52	47	95.5	520	282	140	98.0	92.1	54.0	39.0	21.6	9.0
14	226	11	34	33	88.6*	520	280	132	90.9*	85.8	52.4	39.6	22.4	8.8
15	227	12	31	23	83.8	517	280	125	86.0	80.9	51.5	37.9	22.8	8.8
16	228	13	26	23	80.8	515	279	122	82.8	78.2	50.2	38.0	23.1	9.1
17	229	14	19	19	77.1	514	277	120	79.0	75.1	49.5	39.4	21.9	8.4
18	230	15	16	13	74.5	514	278	116	76.4	71.9	44.6	36.2	20.8	7.8
19	231	16	8	4	74.9	513	276	117	76.7	72.4	47.2	37.4	20.6	7.5
20	232	17	22	17	75.4	518	276	119	77.2	72.9	47.6	39.0	21.0	7.5
21	233	18	23	19	78.2	515	276	121	80.0	75.9	49.4	35.5	21.8	8.2
22	234	19	0	10	76.7	514	268	121	78.5	74.7	49.2	39.9	22.6	7.7
23	235	20	8	13	75.1	512	271	118	76.8	72.5	47.2	38.3	23.0	8.1
24	236	21	8	7	75.3	508	272	118	77.0	72.9	48.4	38.6	23.2	8.1
25	237	22	11	15	78.9	523	277	121	80.6	76.1	50.5	37.8	21.2	8.5
26	238	23	16	19	79.6	520	274	123	81.3	78.3	50.9	39.0	22.0	8.0
27	239	24	18	16	81.9	530	275	125	83.6	78.4	51.8	41.0	23.2	9.5
28	240	25	10	13	81.7	527	281	124	83.3	78.8	50.6	39.6	22.7	7.7
29	241	26	10	9	83.0	520	285	123	84.7	80.3	53.2	40.6	23.8	8.2
30	242	27	21	12	84.6	518	282	122	86.2	81.7	53.0	41.0	22.9	8.0
31	243	1	21	12	85.1	517	280	124	86.7	82.5	54.7	41.7	24.1	8.2
MEAN			39.3	39.1	90.4	521	283	134	92.7	87.5	54.0	39.7	23.7	10.5

*adjusted for burst



PREDICTED AND OBSERVED SUNSPOT NUMBERS

SMOOTHED OBSERVED AND PREDICTED SUNSPOT NUMBERS
CYCLE 20

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1964										9.6	10.2	11.0
1965	11.7	12.0	12.5	13.6	14.6	15.0	15.5	16.4	17.4	19.7	22.3	24.5
1966	27.7	31.3	34.5	37.4	40.7	44.6	50.3	56.6	63.1	67.6	70.2	72.7
1967	75.0	78.8	82.2	84.6	87.4	91.3	94.1	95.3	95.3	95.0	97.1	100.6
1968	102.6	102.9	104.7	107.2	107.6	106.6	105.2	104.8	107.0	109.9	110.6	110.1
1969	110.0	109.6	108.0	106.4	106.2	106.1	105.8	106.4	105.4	104.1	104.6	104.9
1970	105.6	106.0	106.2	106.1	105.8	105.3	103.8	101.0	97.2	93.9	89.4	84.1
1971	80.4	77.8	74.4	70.9	68.1	66.7	65.4	64.6	65.8	66.2	66.8	69.4
1972	70.8	71.2	72.4	73.4	72.9	70.5	68.2	65.5	62.2	60.6	58.7	55.1
1973	50.9	46.5	44.2	42.7	40.7	39.1	37.5	36.1	34.4	32.6	31.8	31.5
1974	32.7	34.4	34.0	33.9	34.6	34.5	34.0	33.1	32.1	30.3	27.6	25.2
1975	23.9	22.2	21.3 (2.1	20.2 (3.1	19.0 (4.1	18.3 (6.1	17.8 (9.1	(16.5) (--)	(15.7) (--)	(15.0) (--)	(14.3) (--)	(13.6) (--)
1976	(12.8) (--)	(11.9) (--)										

For each month, the upper figure is the observed or predicted Zürich smoothed sunspot number. The lower figure in parenthesis is the corresponding absolute value of the 90% prediction interval, an indication of the uncertainty above and below the predicted number. Observed numbers are those with no prediction intervals. The observed smoothed sunspot numbers are based on final Zürich numbers through 1974.

The predicted sunspot numbers are derived from a regression analysis based on cycles 8 through 19. Tests indicate that earlier cycles are from a different statistical population. From July 1968 - February 1970 a regression analysis based on cycles 1 through 19 was used because it had not then been proven that two populations exist.

Hα SOLAR FLARES

Solar Flares for which at least one observatory has assigned a numerical importance of "1" or greater

AUGUST 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE AUG	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
HURB	01	0957E	1004	1013D	N03	E57	.845	13786	5.7	160	1F						
MITK	02	0101	0103	0117	N10	E90	1.000	13790	8.8	16	1N		C	0103	60		G
MITK	02	0159	0202	0210	N09	E90	1.000	13790	8.8	11	1N		C	0202	90		GH
CATA	02	0945	0950	0955	N10	W85	.998	13790	27.0	10	1F	3		0950	84		
ATHN	02	0950	0951	0956	N10	W78	.983		27.6	6	SF	2	C		32		F
ATHN	02	0950	0951	0956	N10	W78	.983		27.6	6	SF	2	V		32		F
RAMY	02	1042	1044	1124	N 8	E90	1.000		9.2	42	SB	3	C				DE
ATHN	02	1044E	1047	1142	N 7	E90	1.000		9.2	58D	SB	4	V		182		DE
ATHN	02	1044E	1047	1142	N 7	E90	1.000		9.2	58D	SB	4	C		182		DE
RAMY	02	1045E	1049U	1105D	N 6	E90	1.000		9.2	20D	SB	3	V				DE
RAMY	02	1045E	1049U	1105D	N 6	E90	1.000		9.2	20D	SB	3	V				DE
CATA	02	1045	1045	1045D	N05	E90	1.000	13790	9.2		1N	3		1045	56		
CATA	02	1105E	1105	1200	N05	E90	1.000	13790	9.2	55D	1N	3		1105	84		
ATHN	02	1146	1149	1156	N 7	E90	1.000		9.2	10	SF	4	V		83		DE R
ATHN	02	1146	1149	1156	N 7	E90	1.000		9.2	10	SF	4	C		83		F R
RAMY	02	1321	1332	1344	N10	E88	1.000		9.2	23	SB	4	C				DE
CATA	02	1325	1330	1340	N07	E90	1.000	13790	9.3	15	1N	3		1330	56		
RAMY	02	1326E	1332	1337D	N 7	E90	1.000		9.3	11D	SB	4	V				DE
ATHN	02	1329	1332	1343	N 7	E90	1.000		9.3	14	SB	4	C		182		DE
ATHN	02	1329	1332	1343	N 7	E90	1.000		9.3	14	SB	4	V		182		DE
BOUL	02	1329	1332	1345	N 8	E90	1.000		9.3	16	SN	1	C	1332	42	1.7	
MITK	03	0322	0335	0456	N06	E28	.507	13786	5.2	94	1B		C	0335	380	4.4	FUZ
PALE	03	0325	0345	0426D	N 6	E28	.507		5.2	61D	1B	3	C		326		U F
TEHR	03	0325E	0338	0455D	N 7	E30	.540		5.4	90D	1B	4	C		240		U Z
ATHN	03	0350E	0356	0518D	N 5	E27	.487		5.2	88D	SB	2	C		160		Z U
ATHN	03	0350E	0414	0518D	N 5	E27	.487		5.2	88D	1B	2	V		224		Z U
ATHN	03	0350E	0356	0518D	N 5	E27	.487		5.2	88D	SB	2	V		160		Z U
ATHN	03	0350E	0414	0518D	N 5	E27	.487		5.2	88D	1B	2	C		224		Z U
MANI	03	0413E	0413U	0455D	N06	E28	.507	13786	5.3	42D	1B	2	P	0413	350	4.1	ZU
TEHR	03	0635E	0637	0705	N 6	E86	.998		9.7	30D	SB	4	V		36		DE
TEHR	03	0635E	0637	0705	N 6	E86	.998		9.7	30D	SB	4	C		36		DE
CATA	03	0640	0645	0705	N05	E80	.987	13790	9.3	25	1N	3		0645	56		
TEHR	03	0756E	0802	0833D	N 9	E83	.995		9.6	37D	SB	4	C		24		DE U
ARCE	03	0835	0854	0910	N08	E82	.993		9.5	35	SN		C	0854	38		
CATA	03	0840	0850	0900D	N06	E83	.994	13790	9.6	20D	1N	1		0850	112		
TEHR	03	0845E	0847U	0934	N 7	E84	.996		9.7	49D	SB	4	C		45		DE
ATHN	03	0847E	0847D	0847D	N 7	E84	.996		9.7		SB	4	V		48		DE
TEHR	03	1217	1220	1228D	N10	E79	.986		9.4	11D	SN	4	V		71		DE
TEHR	03	1217	1220	1228D	N10	E79	.986		9.4	11D	SN	4	C		71		DE
RAMY	03	1218	1220	1228	N10	E80	.988		9.5	10	SN	4	C		45		DE
RAMY	03	1218E	1220	1228	N10	E78	.983		9.4	10D	SN	4	V		64		DE
CATA	03	1220	1225	1230D	N07	E80	.987	13790	9.5	10D	1B	3		1225	84		
CATA	04	0700	0720	0735D	N12	E69	.945	13790	9.5	35D	1F	1		0720	196		
PALE	04	2302E	2316U	2320D	N12	E63	.908		9.7	18D	SF	2	C		30		DE
MITK	04	2306	2315	2320	N12	E68	.940	13790	10.1	14	1B		P	2315	110		
HURB	06	0935E	0945	1005D	N03	W16	.317	13786	5.2	30D	1N						
ARCE	06	0935	0946	0956	N05	W15	.322		5.3	21	SB		C	0946	86	.9	H
CATA	06	0940	0945	0945D	N05	W16	.335		5.2	5D	SB	3		0945	84	.9	
ATHN	06	0940E	0945U	0958	N 7	W17	.368		5.1	18D	SN	2	V		48		F
TEHR	06	0947E	0949U	1000D	N 5	W13	.296		5.4	13D	SB	4	V		24		DE
HURB	06	1027E	1031	1055D	N05	W14	.309	13786	5.4	28D	1N						
PALE	07	0012	0013	0051D	N 5	W24	.447		5.2	39D	SN	3	C		85		UDE
PALE	07	0031	0136	0151	N 5	W24	.447		5.2	80	1B	3	C		316		UDE
PALE	07	0258	0303	0311	N 5	W24	.447		5.3	13	1N	3	C		239		DE
TEHR	07	0258	0304	0313	N 6	W27	.495		5.1	15	SB	4	C		93		U
TEHR	07	0259E	0303	0309	N 7	W29	.528		4.9	10D	SB	4	V		88		U
ARCE	07	0810	0820	0845	N05	W30	.531		5.1	35	SF		C	0820	96	1.1	H
WEND	07	0828		0902	N06	W28	.509	13786	5.3	34	1F		V		400	4.6	
UPIC	07	1141	1143	1148	N04	W32	.553	13786	5.1	7	1F		P	1143	184		
UPIC	07	1238	1258U	1308	N05	W32	.558	13786	5.1	30	1F		P	1258	204		
MCMA	07	1248	1251	1306	N05	W31	.544	13786	5.2	18	SN		C	1251	60	.7	E
TEHR	07	1248	1251	1320	N 7	W30	.542		5.3	32	SB	4	C		80		DE
RAMY	07	1248	1254	1304	N 4	W31	.540		5.2	16	SN	3	C		45		DE
TEHR	07	1250E	1252U	1320	N 6	W30	.536		5.3	30D	SB	4	V		24		DE
CATA	07	1250	1250	1305	N06	W31	.550		5.2	15	SB	3		1250	56	.7	
MCMA	07	1450	1502	1557	N05	W32	.558	13786	5.2	67	SB		C	1502	125	1.6	E
RAMY	07	1450	1501	1548D	N 3	W33	.563		5.1	58D	1B	4	C		240		DE

Hα SOLAR FLARES

Solar Flares for which at least one observatory has assigned a numerical importance of "1" or greater

AUGUST 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		CORD.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
UPIC	07	1455	1503	1551	N05	W33	.572	13786	5.1	56	1N		P	1503	367		TK
RAMY	07	1500	1505U	1520D	N 4	W33	.567		5.2	200	SB	4	V		180		DE
BOUL	07	1505	1517	1537	N 4	W33	.567	13786	5.2	32	1N	2	C	1517	203	2.4	
CATA	07	1505E	1505	1510D	N06	W33	.576		5.2	5D	SB	3		1505	112	1.4	
HERS	07	1507E	1513	1524	N05	W33	.572		5.2	17D	SN		P	1513	90	1.9	D
CATA	07	1520E	1520	1525D	N05	W33	.572		5.2	5D	SB	3		1520	112	1.4	
TEHR	09	0224E	0230U	0300	N 8	E 5	.265		9.5	36D	SB	3	V		120		F
PALE	09	0225E	0227	0252D	N 8	E 5	.265		9.5	27D	SB	3	C		169		DE
MITK	09	0225	0230	0249	N09	E07	.293	13790	9.6	24	1B		C	0230	280	2.8	
TEHR	09	0231E	0231U	0300	N 8	E 5	.265		9.5	29D	SB	3	C		120		F
UPIC	10	0751	0805	0811	N06	W71	.951	13786	5.0	20	1F		P	0805	82		F
ATHN	10	0758	0805	0824D	N 5	W68	.933		5.2	26D	SB	4	V		48		UDE
ATHN	10	0758	0805	0824D	N 5	W68	.933		5.2	26D	SB	4	C		48		UDE
ATHN	10	0813E	0816	0826D	N 8	W 8	.286		9.7	13D	1N	4	C		240		UDE
ATHN	10	0813E	0816	0826D	N 8	W 8	.286		9.7	13D	1N	4	V		240		UDE
WEND	10	0914		0935	N05	W70	.945	13786	5.1	21	1N		V		400	9.4	
UPIC	10	0915	0917	0935	N06	W72	.956	13786	5.0	20	1N		P	0917	82		F
ARCE	10	0920E		0935D	N04	W73	.959		4.9	15D	SN		C	0925	48		
ATHN	10	0925E	0925U	0944	N 5	W69	.939		5.2	19D	SB	4	V		64		DE
ATHN	10	0925E	0925U	0944	N 5	W69	.939		5.2	19D	SB	4	C		64		DE
UPIC	10	1310	1336	1403	N08	W13	.334	13790	9.6	53	1F		P	1336	286		
BOUL	10	1325E	1338	1359	N 8	W12	.323		9.7	34D	SN	2	P	1338	107	1.1	
TEHR	10	1328E	1342	1350	N 8	W10	.303		9.8	22D	SN	3	V		48		F
CATA	10	1330	1340	1350D	N08	W13	.334		9.6	20D	SB	3		1340	84	.9	
ATHN	10	1332E	1336	1350	N 9	W14	.357		9.5	18D	SN	4	V		64		DE
ATHN	10	1332E	1336	1350	N 9	W14	.357		9.5	18D	SN	4	C		64		DE
RAMY	10	1336E	1338U	1352D	N 9	W11	.326		9.7	16D	SN	4	V		64		FDE
RAMY	10	1336E	1338U	1350	N 8	W12	.323		9.7	14D	SN	3	C		72		FDE
MCMA	10	1348		1350	N07	W13	.322	13790	9.6	2	SB		P	1349	100	1.1	BE
UPIC	10	1352	1412	1555	N04	W72	.954	13786	5.2	123	1N		P	1412	122		F
ATHN	10	1353	1356	1440	N 5	W69	.939		5.4	47	SN	4	V		48		F
ATHN	10	1353	1413	1440	N 5	W69	.939		5.4	47	SB	4	C		48		F
RAMY	10	1409	1412	1427D	N 3	W73	.959		5.1	18D	SN	3	C		63		FDE
BOUL	10	1410	1417	1447	N 4	W72	.954		5.2	37	SN	0	C	1417	42	1.2	
TEHR	10	1410E	1414	1419	N 5	W67	.926		5.6	9D	SN	3	C		23		F
TEHR	10	1410	1414	1419	N 5	W67	.926		5.6	9	SN	3	V		23		F
RAMY	10	1413E	1414U	1431	N 3	W73	.959		5.1	18D	SF	4	V		64		FDE
CATA	10	1425E	1430	1455	N06	W70	.945	13786	5.4	30D	1B	3		1430	84		
TEHR	12	0616E	0619	0623	N 9	W37	.644		9.5	7D	SF	4	V		18		F
MITK	12	0617	0618	0638	N06	W36	.617		9.6	21	SF		C	0618	80	1.0	E
ATHN	12	0617	0620	0632	N 6	W39	.655		9.3	15	SN	4	C		32		DE
ATHN	12	0617	0620	0632	N 6	W39	.655		9.3	15	SN	4	V		32		DE
CATA	12	0620	0620	0650	N09	W37	.644		9.5	30	SN	3		0620	112	1.4	
UPIC	12	0620	0625	0635	N08	W38	.651		9.4	15	SF		P	0625	82		F
BUCA	12	0620	0626	0650	N08	W38	.651	13790	9.4	30	1F		C	0626	171	2.2	
ATHN	12	0623	0625	0635	N 6	W33	.578		9.8	12	SF	4	C		16		DE
ATHN	12	0623	0625	0635	N 6	W33	.578		9.8	12	SF	4	V		16		DE
MANI	12	0629E	0629U	0636D	N07	W39	.659		9.3	7D	SF	2	V	0629	60	.7	F
HURB	12	0631E	0643	0657D	N10	W47	.763	13790	8.7	26D	1F						E
BUCA	12	0700		0720	N08	W39	.664		9.4	20	SF		C	0705	53	.7	
HURB	12	0703E	0715	0732D	N10	W47	.763	13790	8.8	29D	1B						E
HURB	12	0736E	0746	0755D	N09	W41	.692	13790	9.2	19D	1B						
BUCA	12	0745	0756	0820	N06	W36	.617		9.6	35	SF		C	0756	47	.6	
HURB	12	0810E	0812	0832D	N11	W36	.642		9.6	22D	1B						
BUCA	12	0840		0915	N10	W38	.661		9.5	35	SN		C	0855	127	1.6	E
HURB	12	0850E	0851	0904D	N10	W40	.684		9.4	14D	SB						
UPIC	12	0855E	0855U	0910	N09	W39	.668		9.4	15D	SF		P	0855	82		F
BUCA	12	0915		0950	N08	W37	.639		9.6	35	SF		C	0925	63	.8	E
ARCE	12	0919E		0946	N09	W39	.668		9.5	27D	SF		P	0926	41	.5	H
TEHR	12	0920E	0923	0932	N 8	W38	.651		9.5	12D	SF	4	V		48		F
HURB	12	0953E	0958	1034D	N11	W37	.654	13790	9.6	41D	1N						
HURB	13	0618E	0648	0710D	N08	W52	.808	13790	9.4	52D	1B						
HURB	13	0712E	0718	0730D	N10	W50	.794	13790	9.6	18D	1B						E
CATA	13	0725	0730	0730D	N10	W53	.823		9.3	5D	SN	3		0730	28	.5	
HURB	13	0732E	0734	0804D	N10	W50	.794	13790	9.6	32D	1B						EK
CATA	13	0805	0815	0825	N09	W52	.811		9.4	20	SB	3		0815	56	.9	
HURB	13	0806E	0814	0826D	N10	W50	.794	13790	9.6	20D	1B						

Hα SOLAR FLARES

Solar Flares for which at least one observatory has assigned a numerical importance of "1" or greater

AUGUST 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	NOAA PLAGE REGION	CMP DAY	MIN.		CORD.	TYPE	TIME UT	MEAS. AREA Millionths of Disk	CORR. AREA Sq. Deg.	
WEND	14	0700		0846	N08	W66	.924	13790	9.3	106	1N		V		500	12.0	
CATA	14	0705	0705	0715	N10	W66	.926	13790	9.3	10	1N	3		0705	84		
ATHN	14	0706	0707	0710	N 9	W63	.904		9.6	4	SN	4	C		32		F
ATHN	14	0706	0707	0710	N 9	W63	.904		9.6	4	SN	4	V		32		F
HJRB	14	0735E	0747	0809D	N09	W63	.904	13790	9.6	34D	1B						
ARCE	14	0926E		0945D	N10	W75	.973		8.8	19D	SB		C	0941	57		H
TEHR	14	0938E	0941	1006D	N11	W64	.914		9.6	28D	SN	4	V		73		DE
HURB	14	0939E	0947	1010D	N09	W68	.937	13790	9.3	31D	1B						E
ATHN	14	0939E	0941D	0941D	N10	W64	.913		9.6	2D	1B	4	V		64		DE
ATHN	14	0939E	0941	0951	N10	W64	.913		9.6	12D	1B	4	C		128		DE H
CATA	14	0945	0945	0950	N10	W70	.949	13790	9.2	5	1N	1		0945	84		
ATHN	14	1000	1002	1003	N 8	W70	.947		9.2	3	SN	4	C		32		DE
ATHN	14	1000	1002	1003	N 8	W70	.947		9.2	3	SN	4	V		32		DE
ATHN	14	1031	1041	1131	N 9	W71	.954		9.1	60	1B	4	C		112		Z U
UPIC	14	1031	1100	1120	N07	W67	.929		9.4	49	SN		P	1100	61		K
HJRB	14	1032E	1032	1134D	N08	W64	.910	13790	9.6	62D	1B						K
CATA	14	1035	1035	1110	N09	W67	.931	13790	9.4	35	1B	3		1035	84		
TEHR	14	1040E	1042	1130D	N 7	W68	.935		9.3	50D	1B	4	V		136		DE H
WEND	14	1040		1120	N08	W66	.924	13790	9.5	40	1N		V				
RAMY	14	1043E	1045D	1045D	N 7	W70	.946		9.2	2D	1N	4	V		150		DE
RAMY	14	1043E	1045	1122D	N 7	W70	.946		9.2	39D	1N	4	C		150		DE
RAMY	14	1045E	1051U	1122	N 5	W68	.933		9.3	37D	1N	3	C		117		DE
MCMA	14	1100		1106	N06	W66	.921	13790	9.5	6	SN		C	1101	50	1.4	BD
HURB	14	1232E	1244	1312D	N09	W67	.931		9.5	40D	1F						K
ARCE	21	0839	0840	1000D	N26	W76	.987		15.7	81D	SN		C	0840	81		KH
CATA	21	0840	0850	0900D	N28	W72	.977		16.0	20D	SB	3		0850	56		
MANI	21	0845E	0845U	0856D	N27	W72	.976	13811	16.0	11D	1B	2	V	0845	100	2.3	
TEHR	21	0846	0854	0901	N27	W71	.973		16.0	15	SB	4	V		70		H
WEND	21	0850		0907	N28	W72	.977	13811	16.0	17	1B		V		400	10.7	
WEND	21	1509		1542	N28	W76	.988	13811	15.9	33	1B		V		500	13.4	
RAMY	21	1515E	1517	1550D	N26	W71	.972		16.3	35D	1B	4	C		190		DE
RAMY	21	1515E	1517	1550D	N26	W71	.972		16.3	35D	1B	4	V		190		DE
UPIC	21	1525E		1626	N27	W76	.987	13811	15.9	61D	2B		P	1525	163		U
UPIC	21	1525E		1555	S06	W80	.983	13796	15.6	30D	1N		P	1525	61		
RAMY	21	1947	1949	2002	N26	W77	.989		16.0	15	SB	3	C		99		DE H
RAMY	21	1948	1953	2004	N25	W74	.981		16.3	16	1B	3	V		155		DE H
WEND	22	0520		0610	N28	W85	1.000	13811	15.8	50	2B		V		600	16.0	
ATHN	22	0524	0527	0541	N28	W84	.999		15.9	17	SB	4	V		48		FDE
UPIC	22	0529E	0530U	0540	N26	W84	.999	13811	15.9	11D	2B		P	0530	82		
TEHR	22	0529	0531	0539	N26	W84	.999		15.9	10	SB	3	V		55		DE
UPIC	22	0553	0559	0630	N26	W85	1.000	13811	15.9	37	1B		P	0559	61		K
ATHN	22	0553	0605	0617	N28	W84	.999		15.9	24	1B	4	V		48		DE
TEHR	22	0558E	0604	0623	N26	W84	.999		15.9	25D	SB	3	V		44		DE
CATA	22	0605E	0605	0645	N28	W82	.996	13811	16.1	40D	1B	1		0605	112		
HURB	22	0612E	0622	0654D	N26	W83	.999	13811	16.0	42D	1B						A
HURB	22	0732E	0738	0756D	N25	W84	.999	13811	16.0	24D	1N						A
UPIC	22	0915	0920	0936	N25	W86	1.000	13811	15.9	21	1N		P	0920	41		
HURB	22	0917	0923	0947	N25	W86	1.000	13811	15.9	30	1B						A
TEHR	22	0924	0924	0939	N26	W86	1.000		15.9	15	SN	3	V		30		DE
HERS	22	0931E	0931U	0945	N25	W87	1.000	13811	15.9	14D	1F		P	0931	189	3.9	D
HURB	22	1021	1029	1106	N25	W84	.999	13811	16.1	45	1B						A
UPIC	22	1023	1028	1044	N25	W87	1.000	13811	15.9	21	1N		P	1028	41		
TEHR	22	1026E	1028	1031	N26	W86	1.000		16.0	5D	SN	3	V		44		DE
HERS	22	1038E	1038U	1050	N25	W87	1.000	13811	15.9	12D	1N		P	1038	236	4.9	D
RAMY	22	1156	1230	1254	N25	W87	1.000		16.0	56	SB	4	C				DE
UPIC	22	1158	1230	1254	N27	W89	1.001	13811	15.8	56	2B		P	1230	82		
HURB	22	1201	1232	1316	N26	W87	1.000	13811	16.0	75	2B						A
RAMY	22	1216E	1220U	1245D	N28	W88	1.000		15.9	29D	SN	4	V				DE
RAMY	22	1216E	1220U	1245D	N28	W88	1.000		15.9	29D	SN	4	C				DE
TEHR	22	1227E	1235	1246	N26	W88	1.000		15.9	19D	SB	3	V		40		DE
HERS	22	1237E	1237U	1250	N25	W88	1.000		15.9	13D	2B		P	1238	346	7.1	D
UPIC	22	1335	1350U	1406	N26	W90	1.001		15.8	31	SF		P	1350	20		
HURB	22	1342E	1346	1406	N25	W88	1.000		16.0	24D	1N						
RAMY	22	2217	2223	2235D	N27	W90	1.002		16.2	18D	SN	3	C				Y
PALE	22	2221	2227	2238	N29	W90	1.002		16.2	17	1N	3	C		120		Y
PALE	22	2221	2227	2234D	N29	W90	1.002		16.2	13D	1N	3	V		120		Y
CATA	23	1205E	1210	1210D	N27	W83	.999		17.3	5D	SF	3		1210	28		
CATA	23	1230E	1230	1235D	N27	W83	.999	13811	17.3	5D	1B	3		1230	112		

SOLAR FLARES

Date, time (UT) and coordinates of Subflares

AUGUST 1975

01 0150 N 7 E56
01 0421 N 8 W89
01 1627 N06 E48
02 0005E N07 E48
02 0913 N 7 E36

02 1451 N 5 E36
02 2106 N 7 E90
03 0415 N08 E81
03 0534E N 8 E84
03 0747E N 5 E25

03 0950 N 8 E82
03 1310E N 8 E25
03 2007 N 8 E73
04 0910E N 6 E70
04 1045 N 4 E 7

04 1132 N 8 E 9
04 1501 N 2 E 8
05 0740 N06 E04
05 0748 N 5 W 1
05 1459 N 9 E47

06 0635 N05 W14
06 0857E N07 E47
06 1231E N 6 W15
06 1704E N 6 W17
06 1855 N 5 W20

07 0341 N 5 W25
07 1333E N05 W33
07 1805 N12 E17
07 2032 N05 W36
08 0530 N 8 W40

08 0634E N 7 W38
08 1052 N 7 W40
08 1738 N04 W48
09 0343 N 6 W50
09 0512 N08 W48

09 0905 N08 E03
09 0923 N12 W49
09 1840 N04 W62
10 0715 N08 W09
10 1435 N13 W22

10 2051 N 8 W19
11 0629E N 4 W81
11 1746 N07 W32
12 0350 N 5 W38
12 1114 N10 W34

12 1136E N09 W37
12 1627 N 9 W37
12 2056 N 7 W47
13 0312E N 8 W49
13 1425E N10 W58

14 0538 N 8 W62
14 1004 N17 W76
14 1326E N08 W75
14 1457E N 8 W76
15 0908E N 8 W80

16 0815 S13 E63
16 1427E S 7 W14
20 1728E N26 W65
21 0934 N28 W70
22 1722E N27 W88

24 1444 N 9 W25
25 0755E S13 W06
25 2022 S14 W12
28 0432E S13 W40
28 1010E S13 W47

28 1259 S14 W47
28 1308E S12 W48
29 0650 S13 W60

01 0253 N 6 E57
01 1035E N03 E57
01 1950 N 9 E46
02 0005E N04 E44
02 0915E N 7 E36

02 1451 N 5 E36
02 2107E N 7 E33
03 0426E N 9 E85
03 0535 N08 E85
03 0750 N06 E22

03 0950 N 8 E82
03 1613 N06 E23
03 2110E N 6 E19
04 0910E N 6 E70
04 1045E N 6 E10

04 1207 N 5 E16
04 1612 N07 E67
05 0747 N 6 E 3
05 0855 N05 E57
05 1505 N02 E50

06 0738E N 5 W17
06 1034E N08 E45
06 1256 N 4 W18
06 1710E N 4 W16
06 2006 N05 W22

07 0605E N06 W21
07 1400 N11 E24
07 1806 N12 E15
07 2045 N11 E23
08 0531 N 8 W40

08 0634E N 7 W38
08 1053E N 6 W40
08 1827 N12 E04
09 0343 N 6 W50
09 0515E N 5 W53

09 0908 N 8 E 3
09 0923 N12 W49
09 2035 N08 W05
10 0716E N 8 W 7
10 1435 N13 W22

10 2305 N08 W19
11 0635E N07 W25
12 0144E N 5 W38
12 0350 N06 W34
12 1114E N10 W35

12 1255E N09 W48
12 1628 N 8 W35
12 2058 N07 W47
13 0336 N 8 W49
13 2339E N 8 W47

14 0608 S33 W70
14 1149E N10 W70
14 1326 N06 W68
14 1949 N09 W80
15 0910 N10 W80

16 0816E S11 E62
17 0900E S10 E48
20 1728 N28 W64
21 1449 N 8 E15
22 2348 N29 W90

24 1444 N 9 W25
25 1307 S12 W60
26 0849E S13 W18
28 0432E S13 W40
28 1036 N 9 E80

28 1300 S12 W48
28 1337 S12 W48

01 0300 N 5 E56
01 1115E N05 E54
01 2053 N 9 E90
02 0011 N 6 E44
02 0922E N05 E36

02 1537 N 5 W86
02 2107E N 7 E33
03 0441 N11 E85
03 0539E N 7 E85
03 0752E N 7 E23

03 0951E N 7 E83
03 1810 N10 E79
03 2112 N 8 E73
04 0910 N 7 E68
04 1127 N 8 E 9

04 1214 S05 E18
04 1743 N07 E12
05 0747 N 6 E 3
05 1032E N10 E60
05 2019 N 6 W 5

06 0738E N 5 W17
06 1210E N05 W14
06 1259E N 6 W20
06 1719 N06 W16
06 2016 N10 W13

07 0620 N06 W29
07 1620 N05 W34
07 1844 N05 W35
07 2129 N05 W37
08 0531 N 8 W40

08 0946 N 8 W44
08 1059 N04 W44
08 1932 N06 E07
09 0345 N 8 E 5
09 0515E N 5 W53

09 0908 N 8 E 3
09 0949E N 8 E 5
09 2142 N08 W05
10 0716E N 8 W 7
10 1455 N08 W14

11 0110 N07 W22
11 0720 N08 W25
12 0144E N 5 W38
12 1055 N09 W47
12 1130E N 5 W41

12 1650E N 8 W47
13 0218E N11 W48
13 0525E N 9 W50
14 0116E N 8 W61

14 0608 S33 W70
14 1151 N06 W66
14 1453 N 5 W72
14 1950E N 8 W72
15 1010 N09 W80

16 0816E S11 E62
17 1156E S10 E45
21 0514 N28 W70
21 1500 N07 E16
23 0049 N 9 W 2

24 1444E N 9 W25
25 1307 S12 W60
26 0851 S12 W21
28 0850E S13 W53
28 1036 N 9 E80

28 1300 S12 W48
28 1337 S12 W48

01 0300 N 7 E54
01 1542 N 6 E52
01 2252 N 7 W75
02 0411 N10 E90
02 0924E N 5 E35

02 1735 N 7 E90
02 2110E N 6 E32
03 0445E N10 E84
03 0542 N10 E85
03 0800E N05 E24

03 0951E N 7 E83
03 1832E N 8 E74
03 2209 N 8 E74
04 0910 N 7 E68
04 1128 N05 E08

04 1215 N03 E10
04 1833 N08 E66
05 0748 N 7 E 9
05 1113E N05 W02
06 0624 N10 W 4

06 0841E N05 W12
06 1229E N 6 W19
06 1350E N 4 W19
06 1815 N 4 W20
06 2030 N 5 W21

07 1027E N 5 W31
07 1623 N04 W33
07 1909 N08 E25
07 2129 N 6 W36
08 0625 N06 W36

08 0947 N 7 W45
08 1230E N06 W46
08 2147 N12 E02
09 0345 N 8 E 5
09 0520E N04 W55

09 0909E N 7 E 3
09 1312 N12 E04
09 2251E N 7 W62
10 0945 N08 W08
10 1636 N07 W14

11 0120 N13 W29
11 0819E N07 W27
12 0149 N04 W36
12 1059E N 3 W48
12 1130 N 9 W32

12 1434 N08 W51
12 1650E N 8 W47
13 0236 N12 W49
13 0529E N12 W51
14 0116E N61 W 8

14 0659 N11 W89
14 1151E N 8 W71
14 1454 N06 W75
15 0735 N09 W79
16 0200E N09 W86

16 0854 S11 E62
17 1244E S10 E44
21 0629 N28 W70
22 0118E N27 W78
23 0454E N 2 E24

24 1444E N 8 W24
25 1311 S14 W60
26 0851 S12 W21
28 0916E S13 W46
28 1127 S15 W48

28 1303E S13 W44
28 1803 S16 W54

01 0323E N06 E55
01 1544 N05 E53
01 2303 N 6 E44
02 0738E N 9 E90
02 1427 N 8 E90

02 2005 N 8 E90
02 2218 N 6 E32
03 0446 N11 E85
03 0610E N06 E26
03 0851 N 5 E26

03 0955E N08 E82
03 1833 N06 E23
04 0049 N 8 E71
04 1044 N 8 E 9
04 1128 N 4 E 6

04 1221 N03 E10
05 0150 N 9 E58
05 0748 N 7 E 9
05 1239E N10 E53
06 0624 N10 W 4

06 0851E N04 W15
06 1230E N 5 W18
06 1350E N 6 W20
06 1820 N05 W22
06 2147 N 5 W23

07 1027E N 5 W31
07 1752 N05 W34
07 1909 N10 E23
07 2237 N 5 W37
08 0630 N06 W37

08 0947 N 7 W45
08 1639 N04 W47
09 0313E N12 W 0
09 0453E N 8 E 4
09 0635 N08 E06

09 0922E N 1 W52
09 1355E N 8 E 4
10 0235E N 5 W64
10 0950 N08 W10
10 1840E N 8 W18

11 0326 N09 W23
11 1035E N08 W26
12 0301 N 7 W38
12 1059E N 3 W48
12 1134 N 9 W36

12 1454 N07 W42
12 2056 N 7 W47
13 0238 N 8 W49
13 1200 N15 W60
14 0116 N06 W63

14 0659 N11 W89
14 1155 N06 W69
14 1455 N07 W71
15 0907E N 8 W83
16 0455E N 2 E72

16 0854 S11 E62
20 0855 N28 W56
21 0800E N26 W76
22 0441 N26 W84
23 0845 S12 W32

24 2024 S10 W52
25 1325E S12 W59
26 1230 S12 W19
28 1005 S12 W46
28 1130 S13 W47

28 1305E S12 W48
28 2329E S12 W54

01 0420E N 8 W89
01 1545E N 6 E52
01 2357 N04 E43
02 0738 N 9 E90
02 1430 N07 E90

02 2008 N 9 E88
03 0042 N 6 E30
03 0534E N 8 E84
03 0747E N 5 E25
03 0914E N 8 E83

03 1306E N 5 E24
03 2003E N 6 E20
04 0446 N10 E71
04 1045E N 8 E 9
04 1132E N 6 E10

04 1450 N02 E06
05 0151 N08 E56
05 0748 N 5 W 1
05 1239E N10 E53
06 0630 N05 W15

06 0856 N05 W15
06 1230E N 5 W18
06 1546 N04 W19
06 1825 N 6 W19
06 2148 N04 W25

07 1154E N09 W23
07 1754 N 6 W32
07 1947 N11 E26
08 0511 N04 W39
08 0633 N 6 W39

08 0950 N05 W45
08 1645E N 4 W48
09 0313E N12 W 0
09 0453E N 8 E 4
09 0900 N09 E05

09 0922E N 1 W52
09 1445 N12 E04
10 0709E N 8 W 6
10 1435 N18 W22
10 1842 N08 W16

11 0421 N08 W24
11 1150 N09 W24
12 0350 N 5 W38
12 1110 N11 W38
12 1135E N11 W35

12 1625 N10 W42
12 2056 N 7 W47
13 0238 N 8 W49
13 1204 N13 W57
14 0508 N 8 W62

14 1004 N17 W76
14 1155 N09 W69
14 1457E N 8 W76
15 0908E N 8 W80
16 0455E N 2 E72

16 1427E S 7 W14
20 1723 N25 W65
21 0835 S05 W63
22 0710E N26 W85
23 1345 N25 W84

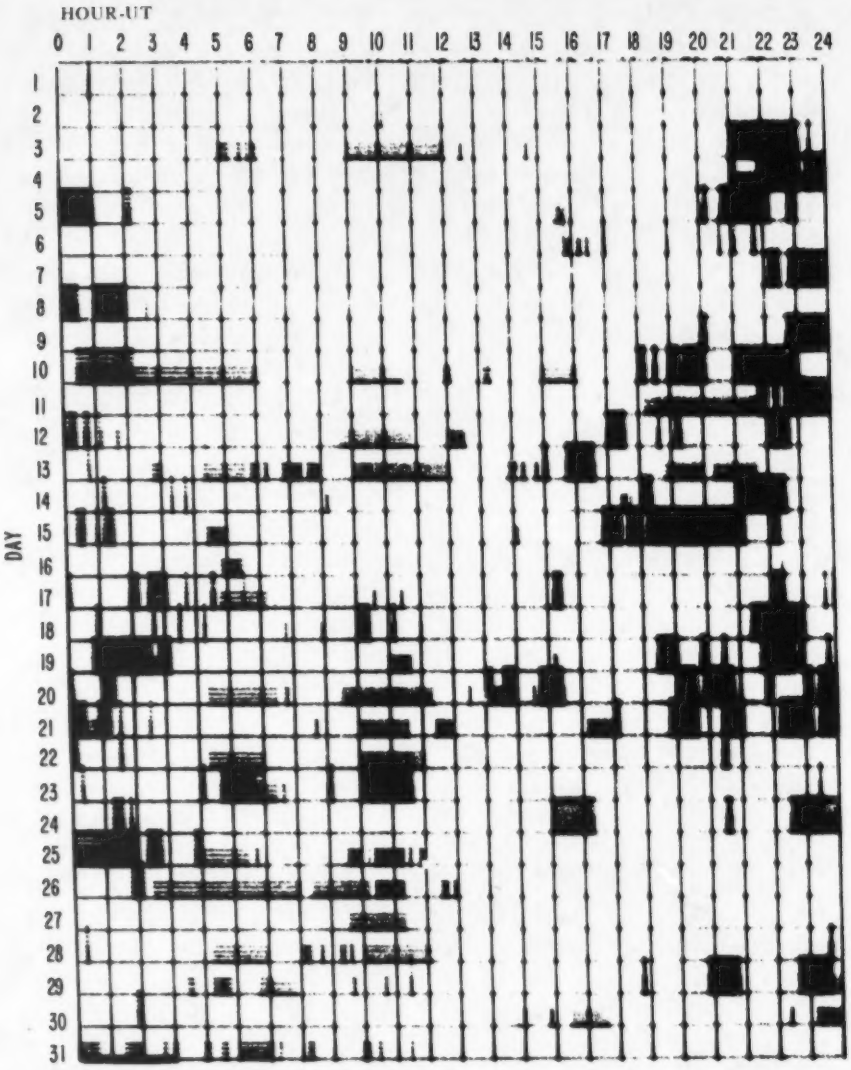
25 0615 S13 W57
25 1926 S13 W12
26 1231 S13 W21
28 1005 S12 W46
28 1259 S15 W49

28 1308E S12 W48
29 0219 S14 W57

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

AUGUST 1975



Observatories included in total patrol:

Arcetri	Bucharest	Hurbanovo	McMath-Hulbert	Ramey
Athenes	Catania	Istanboul	Mitaka	Tehran
Boulder	Herstmonceux	Manila	Palehua	Upice
				Wendelstein

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

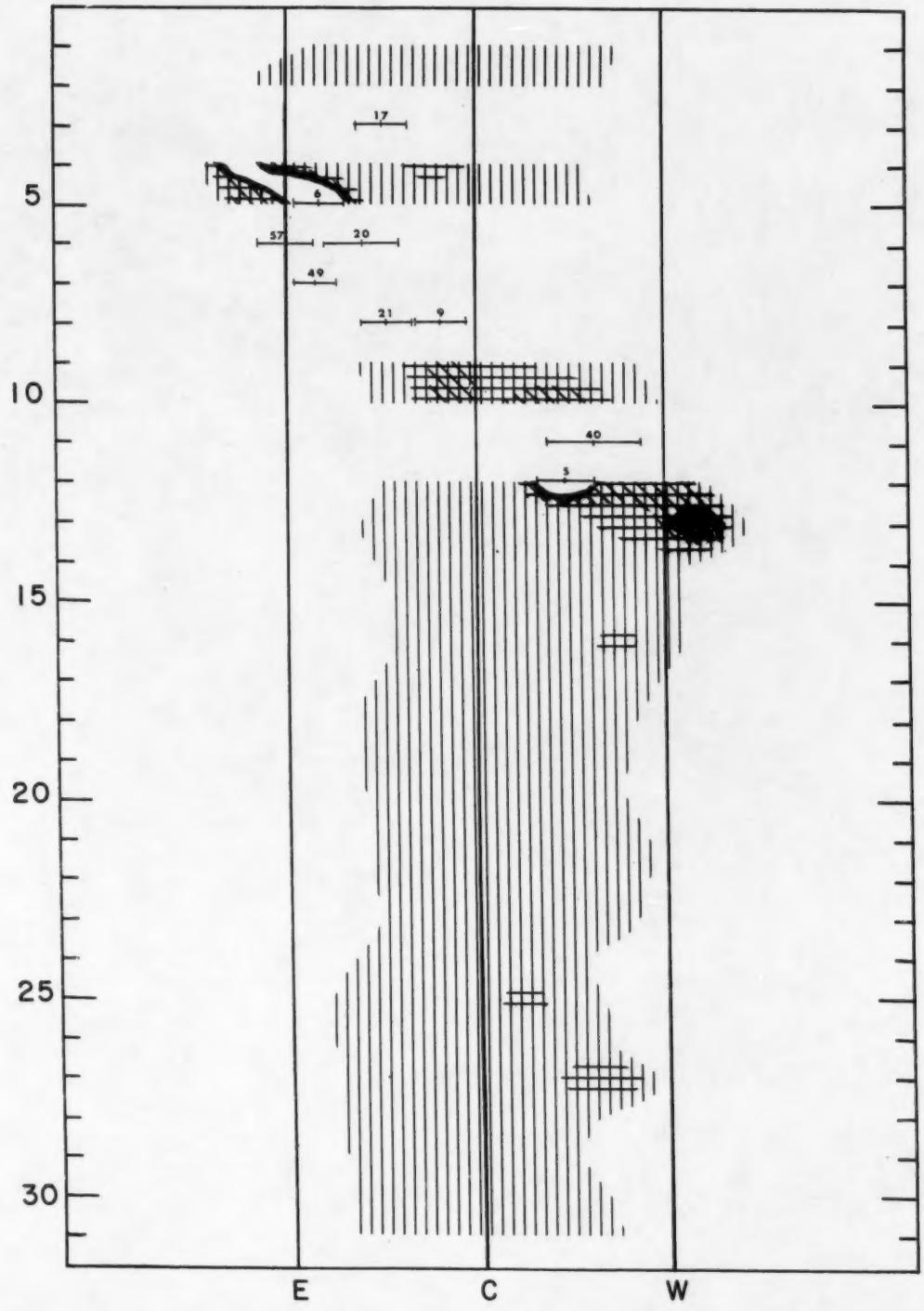
15
Aug 75

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATION

AUGUST 1975

Nançay

169 MHz



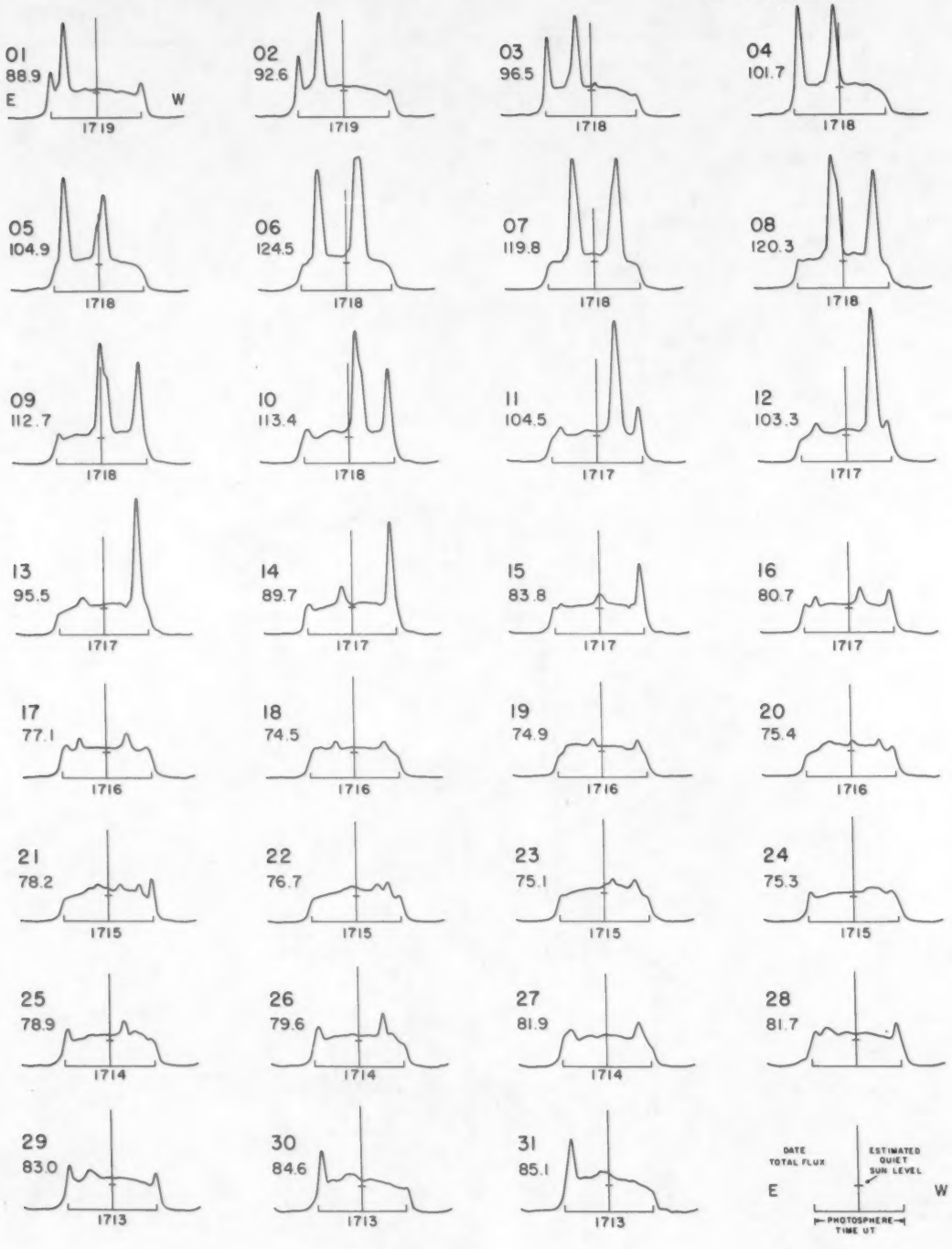
16
Aug 75

EAST - WEST SOLAR SCANS

August 1975

ALGONQUIN RADIO OBSERVATORY
CANADA

10.7 cm
Fan Beam with 1.5 minutes of arc
E-W Resolution

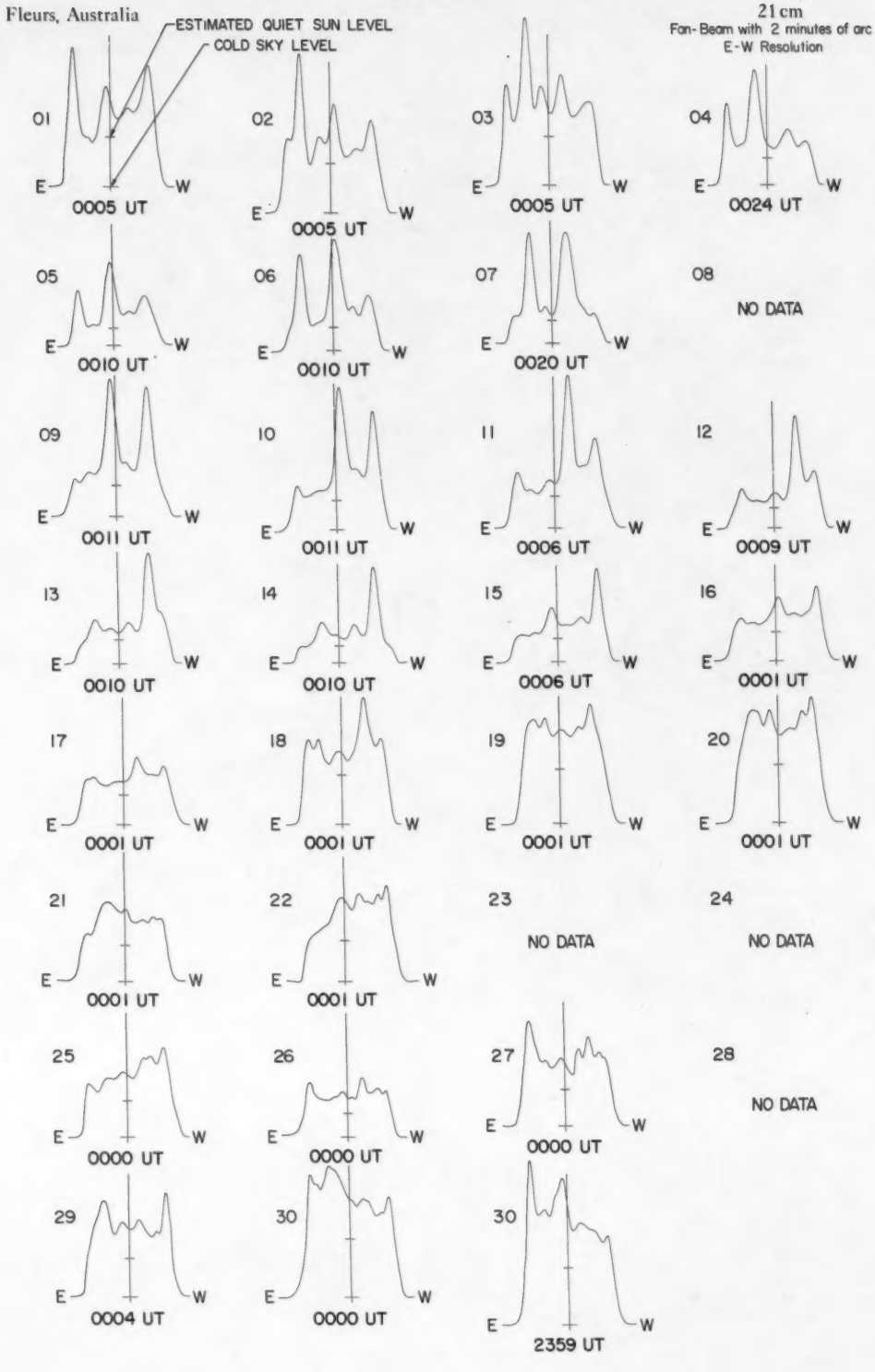


EAST-WEST SOLAR SCANS

AUGUST 1975

Fleurs, Australia

21 cm
Fan-Beam with 2 minutes of arc
E-W Resolution



18
Aug 75

EAST-WEST SOLAR SCANS

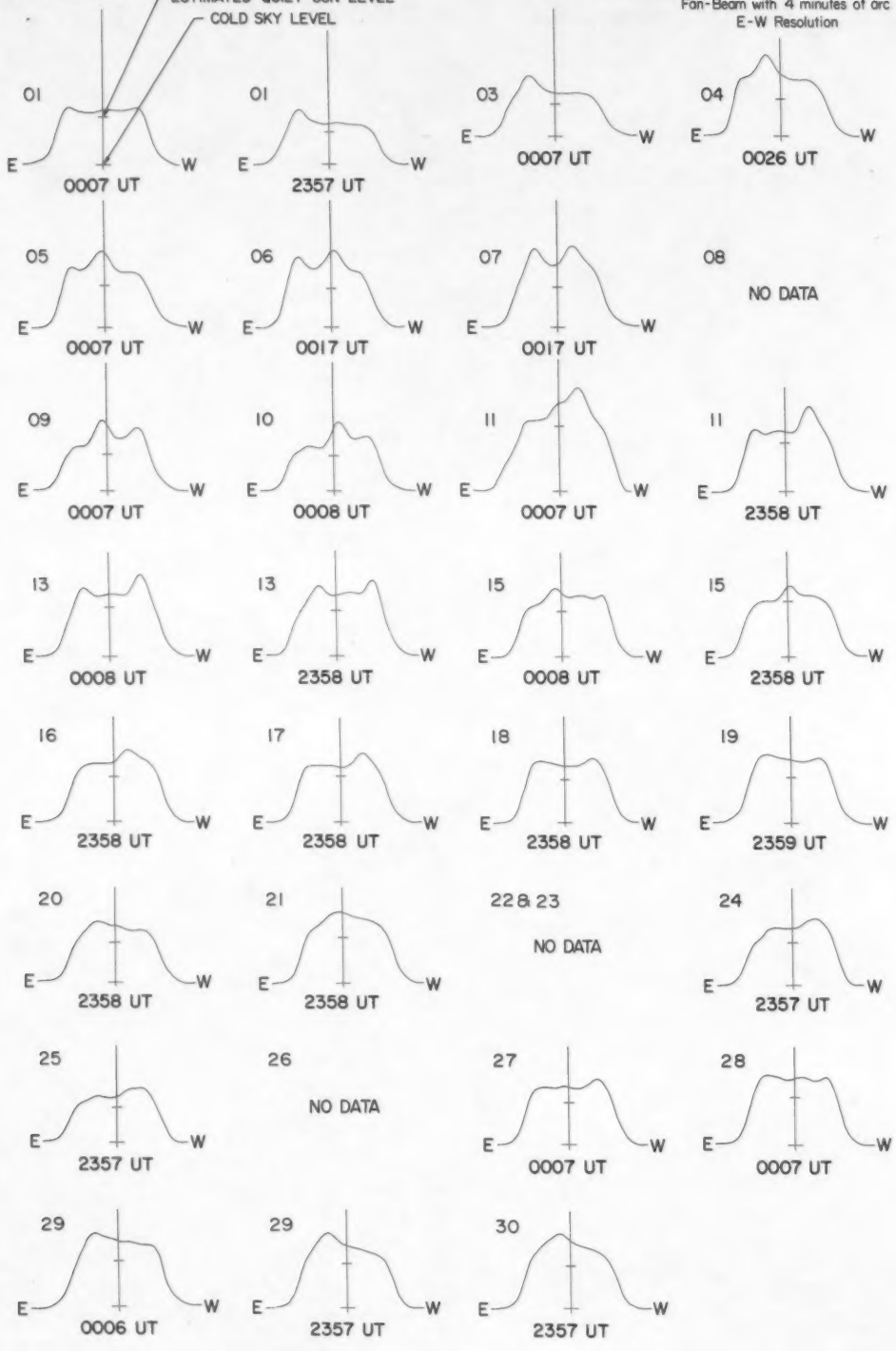
AUGUST 1975

Fleurs, Australia

ESTIMATED QUIET SUN LEVEL

COLD SKY LEVEL

43 cm
Fan-Beam with 4 minutes of arc
E-W Resolution



SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS

AUGUST 1975

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
1	2695	PENT	240 R	0100	0110	1	1.2	0.6		
	2695	PENT	24P R	0110		50 D	1.2			
	2695	MANI	1	0319.8	0321.2	5.4	5.2	1		
	8800	MANI	4	0320	0325.9	6.3	27	10.8		
	2800	OTTA	32 ABS	1218	1243	74	-2	-1		
	2800	OTTA	1 S	1418	1419	3	1	0.5		
	2800	OTTA	240 R	1538	1628	50	2	1		
	2800	OTTA	24P R	1628		540 D	2			
	2695	PENT	21A GRF	2304		105	4.6	2.6		
	2695	PENT	20 GRF	2305	2327	38	2.6	1.3		
	2695	PENT	45 C	2406	2412.6	14.5	27.8	6.4		
	2695	PENT		2406	2408.5	5	11			
	2695	PENT		2411	2412.6	9.5	27.8			
2	1420	BOUL	45 C	0006	0011.5	12	5	2		
	2695	BOUL	45 C	0007	0013	11.5	28	8		
	4995	BOUL	3 A	0007	0011.5	22.5	19	6		
	2695	MANI	4	0008.1	0012.7	7.9	34.2	13.7		
	8800	MANI	4	0009.5	0012.6	6.5	18	6		
	8800	MANI	4	0031	0032.5	9.4	68	42		
	2695	BOUL	1 F	1327.5	1329.5	3.5	4	1		
	1420	BOUL	1 F	1327.5	1328.5	2.5	2	1		
	2800	OTTA	1 S	1328.5	1329.2	2.5	1.6	0.6		
	1420	BOUL	2 S	1357	1359.5	5.5	2	1		
	2695	BOUL	8 S	1359	1400.5	4	5	2		
	2800	OTTA	1 S	1448	1448.9	1	0.8	0.4		
	2800	OTTA	26 FAL	1510	1540	30	-2.8	-1.4		
	2800	OTTA	20 GRF	1635	1647	55	1.6	0.8		
	4995	BOUL	1 S	1919.5	1921.5	6.5	11	3		
	2800	OTTA	20 GRF	1920	1922	15	1.4	0.7		
	2695	SGMR	2 S/F	1921.2	1922.3	8	3	.9		
	8800	SGMR	22 GRF	1921.2	1922.4	12	10.8	6.5		
	2800	OTTA	24 R	1935	2000	25	1.4	0.7		
	2800	OTTA	27A RF	1935		325	1.4	0.7		
	8800	SGMR	22 GRF	1938	2106.3	97.8	53	31.8		
	2695	SGMR	22 GRF	1940.3	2049.4	84.3	13	7.8		
	2800	OTTA	24PFR	2000		250	1.4			
	2800	OTTA	1 S	2005	2006	10	1.4	0.7		
	2800	OTTA	20 GRF	2015	2108	105	3	1.2		
	2695	PENT	26 FAL	2410	2500	50	-2.8	-1.4		
3	4995	BOUL	8 S	0001.5	0002	2.5	11	3		
	8800	MANI	3	0012.6	0012.9	2.2	26.2	9.5		
	2695	PENT	240 R	0115	0130	15	1.4	0.7		
	2695	PENT	24P R	0130		30 D	1.4			
	2695	MANI	22	0329.8	0350.5	39.6	56	18.9		
	8800	MANI	22	0330.9	0350.6	43.3	88	30.2		
	8800	MANI	1	0533.3	0533.7	1.5	19.5	6		
	8800	SGMR	3 S	1219.6	1220.4	3.1	14.1	2.8		
	2800	OTTA	21A GRF	1450	1510	155	3.2	1.8		
	2800	OTTA	1 S	1451	1451.3	1	1.2	0.6		
	2800	OTTA	250 R	1735	1855	80	4.4	2.2		
	1420	BOUL	2 S	1809.5	1811	4.5	4	1		
	2695	SGMR	4 S/F	1810.7	1811.4	2.6	12.6	3.8		
	8800	SGMR	4 S/F	1810.7	1811.4	2.5	19.8	5.9		
	4995	BOUL	2 S	1810	1811	4.5	18	5		
	2800	OTTA	4 S/F	1810	1811.2	4	11.2	2.8		
	2695	BOUL	2 S	1811	1812	4	9	3		
	8800	SGMR	22 GRF	1815	1837.9	45.1	16.8	10.1		
	2695	SGMR	22 GRF	1821	1836.5	123 U	7.8	4.7		
	2800	OTTA	20 GRF	1832	1837	22	3.2	1.6		
	2800	OTTA	24P R	1855		250 D	4.4			
	2800	OTTA	20 GRF	1950	2018	175	6.2	2.8		
4	2695	MANI	1	0049.5	0050.1	1.7	4.9	1.2		
	8800	MANI	3	0049.5	0049.9	2.6	19.7	6.1		
	2800	OTTA	22F GRF	1515		80	1.4	0.8		
	2800	OTTA	8 S	1944.2	1944.3	0.5	12			
	2800	OTTA	8 S	1946.5	1946.6	0.5	7.8			
	2800	OTTA	20 GRF	2100	2145	65	1.8	0.9		
5	1420	BOUL	8 S	1445.5	1446.5	1.5	2	1		
	2695	SGMR	2 S/F	1458.8	1502.6	9.7	2.6	.8		
	2800	OTTA	20 GRF	1458	1504	14	1.4	0.7		
	2800	OTTA	27F RF	1630		213	2.6	2.2		
	2800	OTTA	24 R	1830	1908	38	2.6	1.1		
	2695	BOUL	2 S	1841.5	1845	9.5	6	3		
	2800	OTTA	24P R	1908		155	2.6			
	2800	OTTA	20 GRF	1922	1930	30	1.8	0.9		
	2800	OTTA	20 GRF	2005	2040	75	4.6	2.3		
	2800	OTTA	26 FAL	2143	2203	20	-1.4	-0.7		
	2695	PENT	20 GRF	2340		60	0.6	0.4		
6	2800	OTTA	1 S	1149.5	1150	1	1.6	0.8		

SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS
AUGUST 1975

	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
	2695	SGMR	4 S/F	1211.8	1212.1	3.2	14.4	4.3		
	8800	SGMR	4 S/F	1212.3	1213.2	2.3	10.5	3.2		
	2800	OTTA	3 S	1212	1212.2	3	11.8	3		
	2800	OTTA	24 R	1320	1345	25	2	1		
	2800	OTTA	27 RF	1320		90	2	1.6		
	2800	OTTA	24P R	1345		45	2			
	8800	SGMR	4 S/F	1350.1	1350.3	.9	73	21.9		
	2800	OTTA	26 FAL	1430	1440	10	-2	-1		
	2800	OTTA	21A GRF	1450	1700	240	8.2	3.3		
	1420	BOUL	2 F	1607.5	1608.5	1.5	7	2		
	2800	OTTA	1 S	1834	1835	2	0.6	0.3		
	2800	OTTA	32A ABS	1927	2005	68	-3.4	-1.7		
	2800	OTTA	45 C	2030.2	2031.9	2	1.2	0.5		
	2800	OTTA	22F GRF	2045	2155	90	3.8	1.9		
	4995	BOUL	8 S	2230.5	2231	1.5	31	12		
	2695	PENT	OSC	2310		100				
7	2695	BOUL	2 S	0003	0005.5	5	5	2		
	2695	PENT	20 GRF	0110	0135	50 D	2.6			
	1420	BOUL	2 S	0124.5	0130	9	7	3		
	4995	BOUL	2 S	0128.5	0131	4	14	5		
	2695	BOUL	2 S	0129	0131	3	6	2		
	8800	MANI	4	0131.1	0134.3	7.5	19.6	3.3		
	8800	MANI	4	0300.4	0301.4	4.6	26.1	4.9		
	4995	BOUL	8 S	1247.5	1248	1.5	52	19		
	1420	BOUL	8 S	1247.5	1248.5	1.5	4	1		
	2800	OTTA	3 S	1248.1	1248.9	1.9	1.7	0.8		
	2695	SGMR	3 S	1248.3	1248.7	6.3	17.2	5.2		
	8800	SGMR	3 S	1248.3	1248.6	4.2	14.3U	4.3U		
	2695	BOUL	8 S	1249	1249.5	1.5	9	3		
	2800	OTTA	29 PBI	1250	1250	10	3.8	1.7		
	2800	OTTA	20 GRF	1357		33	2.2			
	4995	BOUL	1 S	1425	1426.5	3.5	10	3		
	2800	OTTA	26 FAL	1437	1447	10	-2.2	-1.1		
	4995	BOUL	1 S	1459	1500	3	14	5		
	2800	OTTA	20 GRF	1510	1540	50	1.6	0.8		
	4995	BOUL	1 S	1624.5	1625.5	3.5	12	4		
	2800	OTTA	32A ABS	1810	1835	60	-2.2	-1.1		
	2800	OTTA	1 S	1839	1839.2	1.2	1	0.5		
	4995	BOUL	3 S	1942.5	1949	17	12	4		
	2800	OTTA	20 GRF	1944	1947	30	3.2	1.1		
	2695	BOUL	3 S	1944	1949	10	4	1		
	2800	OTTA	20 GRF	2125	2132	20	1.2	0.6		
	2695	PENT	20 GRF	2333	2334.8	24	2.8	1.4		
	2695	BOUL	1 F	2335.5	2336.5	2.5	3	1		
8	2800	OTTA	20 GRF	1350		30	1	0.8		
	2800	OTTA	32 ABS	1605		35	-1.8	-1.2		
	2800	OTTA	22F GRF	1657	1707	20	1	0.7		
	2800	OTTA	20 GRF	1920	1950	55	1.8	0.9		
	2800	OTTA	22F GRF	2025	2055	60	1.2	0.9		
	2800	OTTA	20 GRF	2222	2231	20	1.2	0.8		
9	8800	MANI	4	0226.7U	0228.7U	12.1U	33.2U	10 U		RAIN
	8800	SGMR	4 S/F	1511.7	1512.1	.7	22.6	6.8		
	8800	SGMR	4 S/F	1712.4	1712.6	2.6	29.4	8.8		
	2695	SGMR	20 GRF	1830.5	1843.3	19.5	3.6	1.4		
	2800	OTTA	20 GRF	1832	1842	35	1.8	0.9		
	8800	SGMR	4 S/F	1839.8	1841.2	13	11.3	3.4		
	4995	BOUL	2 S	1840	1841.5	2.5	11	4		
	2800	OTTA	20 GRF	1933	1943	20	1.2	0.6		
	2800	OTTA	20 GRF	2033	2037	50	1.8	0.9		
	2800	OTTA	20 GRF	2135	2145	20	1.6	0.8		
10	8800	SGMR	22 GRF	1319	1324.3	41.5	12.2	7.3		
	4995	BOUL	1 S	1323	1324	1.5	7	2		
	2695	SGMR	22 GRF	1333.5	1341	26.7	6.3	3.8		
	4995	BOUL	2 S	1333	1334.5	5.5	17	6		
	4995	BOUL	45 C	1404.5	1421	27	17	5		
	8800	SGMR	22 GRF	1405.1	1419.3	33	5.1	3.1		
	2800	OTTA	46F C	1408	1422	20	12.2	5.3		
	2800	OTTA	30A PBI	1428	1428	60	1.4	0.9		
	2695	BOUL	45 C	1409.5	1423.5	24	10	3		
	1420	BOUL	45 C	1409	1420	19	8	3		
	2800	OTTA	1 S	1507	1508	2	2.8	1.4		
	4995	BOUL	1 S	1507	1508	2	7	2		
	2695	BOUL	1 F	1508	1508.5	2.5	4	1		
	4995	BOUL	45 C	1824.5	1830.5	32.5	32	6		
	8800	SGMR	3 S	1826.3	1826.6	1.2	11.9	3.6		
	2695	BOUL	29 PBI	1829.5	1832	14.5	12	4		
	2800	OTTA	3 S	1829.5	1831	3.5	18.2	9.1		
	2800	OTTA	29 PBI	1833	1833	17	4.4	2.2		
	8800	SGMR	3 S	1829.9	1831.1	2.1	20.1	6		
	8800	SGMR	29 PBI	1832	1832	19.2	15.6	7.8		
	2695	SGMR	3 S	1830	1831.1	2.6	17.3	5.2		

SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS

AUGUST 1975

	FREQUENCY	STATION	TYPE		STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
					UT	UT	MINUTES	PEAK	MEAN		
	2695	SGMR	29	PBI	1832.6	1832.6	19.4	5.4	2.7		
	2800	OTTA	31	ABS	1850	1950	105	-4.4	-2.2		
	8800	SGMR	22	GRF	2031.4	2040.6	21.6U	11.5	6.9U		
	2695	SGMR	22	GRF	2031.5	2039.1	21.5U	11.3	6.8U		
	4995	BOUL	1	F	2037	2038	11	13	3		
	2800	OTTA	22F	GRF	2037	2039	65	4.4	2		
	2695	BOUL	2	S	2038	2040	4	3	1		
	2695	PENT	24	R	2230	2322	52	3.2	1.6		
	2695	PENT	27	RF	2230		145	3.2	2.4		
	2695	PENT	24P	R	2322		66	3.2			
	2695	PENT	26	FAL	2428	2455	27	-3.2	-1.6		
11	2695	PENT	1	S	0110	0111	4	4.6	1.5		
	2695	BOUL	8	S	0111	0112	2.5	5	2		
	2800	OTTA	20	GRF	1220	1226	20	2.2	1.1		
	2800	OTTA	20	GRF	1350	1405	120	2.2	1.1		
	2800	OTTA	20	GRF	1730	1743	30	1.6	0.8		
	2800	OTTA	20	GRF	2202	2208	30	1.4	1		
	2695	PENT	20	GRF	2340	2355	50	1.6	0.8		
12	2695	BOUL	2	F	0017.5	0018.5	2	31	11		
	8800	MANI	1		0617.8	0618.6	1	5	1.7		
	2695	MANI	2		0617.8	0618.6	2.8	8.1	2.3		
	2800	OTTA	20	GRF	1133	1137	15	1.8	1		
	2800	OTTA	20	GRF	1230	1300	75	2.2	1.1		
	2800	OTTA	24	R	1600	1610	10	1.2	0.6		
	2800	OTTA	27A	RF	1610		130	1.2	1.1		
	2800	OTTA	24P	R	1610		110	1.2			
	2800	OTTA	20	GRF	1623	1628	20	2.2	1.1		
	2800	OTTA	20	GRF	1719	1720.5	25	2.2	1.1		
	2800	OTTA	26	FAL	1800	1810	10	-1.2	-0.6		
	2800	OTTA	20	GRF	1828	1833	45	1.4	0.7		
13	2800	OTTA	20	GRF	1530	1625	85	1.2	0.9		
	2800	OTTA	1	S	2141	2143	4	1			
	2695	PENT	20	GRF	2310	2316	40	1.6	0.8		
14	4995	BOUL	8	S	0012	0014	3.5	22	8		
	8800	MANI	2		0113.2U	0114.2U	3.6U	8.7U	3.5U		RAIN
	2695	PENT	3	S	0113.5	0114.3	3	14.4	4.8		
	2695	PENT	29	PBI	0116.5	0116.5	28	2.4	1		
	2695	MANI	4		0940.3	0941	2.2D	36.1	11.7		SUNSET
	8800	MANI	4		0940.3	0941	1.3D	24.4	15.5		SUNSET
	2800	OTTA	45	C	1329	1330	1.5	3.4	1		
	2695	SGMR	2	S/F	1456.7	1458.8	2.6	1.3	.4		
	8800	SGMR	4	S/F	1456.7	1456.9	1.3	12.3	3.7		
	2800	OTTA	27	RF	1704		101	1.6	1.2		
	2800	OTTA	24	R	1704	1709	5	1.6	0.8		
	2800	OTTA	24P	R	1709		51	1.6			
	2800	OTTA	26	FAL	1800	1845	45	-1.6	-0.8		
	2800	OTTA	41	SER	1954.1	1956.1	2.2	2.2			
	2800	OTTA	1	S	1954.1	1955	1.1	2	1		
	2800	OTTA	8	S	1956	1956.1	0.8	2.2	1.1		
15	2800	OTTA	20	GRF	1505	1509	25	2.4	1.2		
	2695	BOUL	45	C	2324	2328	6.5	7	2		
16	8800	SGMR	3	S	1426.9	1427.1	1.3	15.1	4.5		
21	2695	MANI	4		0516.6	0517.6U	7.2	10.4U	4.1U		RFI
	8800	MANI	4		0516.6	0519.4	6.4	17.9	10.7		
	8800	MANI	46		0837.5	0840	11.4	315	94		
	2695	BOUL	45	C	1516.5	1521.5	13.5	223	70		
	2695	SGMR	4	S/F	1516.6	1519.7	10.4	155	46.5		
	2695	SGMR	30	PBI	1527	1527	9.9	1.3	.8		
	2800	OTTA	4A	S/F	1516.3	1523.3	12	31	12.2		
	1420	BOUL	45	C	1516	1520	12	78	17		
	4995	BOUL	45	C	1516	1520.5	22.5	201	44		
	2800	OTTA	4	S/F	1518.5	1519.5	3	114	47		
	8800	SGMR	47	GB	1518.7	1520	8.3	1135	454		
	8800	SGMR	30	PBI	1527	1527	26.5	8	4.8		
	1420	BOUL	23	GRF	1529	1531	8.5	3	1		
	4995	BOUL	1	S	1530	1530.5	1.5	6	2		
	8800	SGMR	1	S	1531	1531.2	1	6	1.8		
	2695	SGMR	1	S	1531.2	1531.6	1.2	4.8	1.4		
	2800	OTTA	1	S	1531	1531.3	1.5	5.2	2		
	2695	BOUL	8	S	1532	1532.5	2	6	2		
	4995	BOUL	45	C	1946.5	1948.5	8.5	111	39		
	8800	SGMR	46	C	1946.8	1948.2	8.2	124	133.1		
	8800	SGMR	46	C		1949.3		443.6			
	1420	BOUL	2	S	1946	1949	8.5	19	7		
	2695	BOUL	45	C	1947.5	1950	10.5	33	9		
	2695	SGMR	46	C	1947.8	1948.2	9.4	18.4	12.2		
	2695	SGMR	46	C		1949.3		40.5			
	2800	OTTA	46F	C	1947.8	1950.2	4.2	42	16.8		

SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS

AUGUST 1975

	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	REMARKS
	2800	OTTA		1947.8	1948	0.8	19			
	2800	OTTA	F	1948.6	1950.2	3.4	42			
	2800	OTTA	29 PBI	1952	1952	5	3.2	1.6		
	1420	BOUL	2 S	1958.5	1959.5	3	1			
	4995	BOUL	1 S	1958.5	2000	3.5	15	5		
	8800	SGMR	3 S	1959.3	2000.4	3.8	16	4.8		
	2800	OTTA	1 S	1959.3	2000.2	3	7.4	2.8		
	2695	SGMR	1 S	1959.4	2000.3	2.2	6.8	2.1		
	2695	BOUL	3 S	1959.5	2001	2.5	7	2		
22	4995	BOUL	45 C	0114.5	0117	5 D	219	52		
	1420	BOUL	8 S	0115.5	0117	5 D	105	19		
	2695	PENT	4 S/F	0115	0117	13	190	23		
	8800	MANI	4	0116 U	0117.8U	7.8U	330 U	91 U		RAIN
	2695	MANI	4	0116 U	0116.9U	8.7U	92 U	17.4U		RAIN
	2695	BOUL	23 GRF	0117	0117.5	5.5D	257	52		
	2695	MANI	40	0525.5U	0525.8U	6 U	10.1U	2.9U		RFI
	8800	MANI	4	0527.7	0528.6	4.8	64	25.1		
	8800	MANI	4	0600.5	0602.5	3.2	23.9	8.6		
	2695	MANI	2	0600.5	0602.5	3.9	5.8	2.2		
	8800	SGMR	4 S/F	1026.4	1028.1	5.8	219.3	65.8		
	2695	SGMR	4 S/F	1027.3	1027.8	2.4	53	15.9		
	2800	OTTA	1 S	1214	1215	2	1	0.5		
	2695	SGMR	22 GRF	1229.3	1233.3	10.1	86.2	25.9		
	8800	SGMR	4 S/F	1229.6	1233.6	8.9	19.7	5.9		
	2800	OTTA	45 C	1231.5	1231.9	4	8.8	3.6		
	4995	BOUL	8 S	2219.5	2221	3	14	4		
	1420	BOUL	1 S	2220.5	2221.5	2	2	1		
	2695	BOUL	8 S	2221.5	2223	3	14	5		
	2800	OTTA	3 S	2221	2222	2	16.4	6		
	2800	OTTA	29 PBI	2223	2223	10	0.6	0.3		
24	2800	OTTA	20 GRF	1235	1255	85	1.4	0.7		
25	2800	OTTA	24O R	1430	1450	20	1.8	0.9		
	2800	OTTA	24P R	1450		660 D	1.8			
	2695	SGMR	3 S	1813.1	1813.2	.2	16.7	5		
	2800	OTTA	20 GRF	1920	1935	40	1.6	1		
26	2800	OTTA	24 R	1124	1200	36	1.4	1		
	2800	OTTA	27 RF	1124		336	1.4	1.2		
	2800	OTTA	24P R	1200		240	1.4			
	2800	OTTA	26 FAL	1600	1700	60	-1.4	-0.7		
28	2800	OTTA	1 S	1304.5	1305	3	4	2		
	2695	PENT	20 GRF	2330	2350	90 D	2.2			

Observatories:

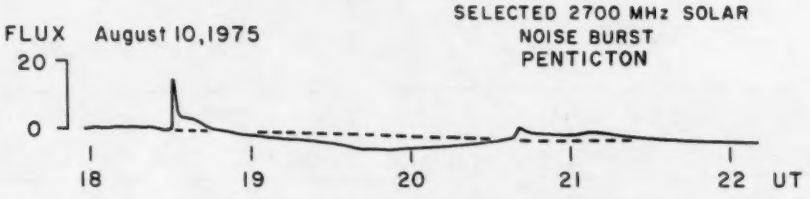
BOUL = Boulder MANI = Manila OTTA = Ottawa ARO PENT = Penticton SGMR = Sagamore Hill

Explanation of Type Code:

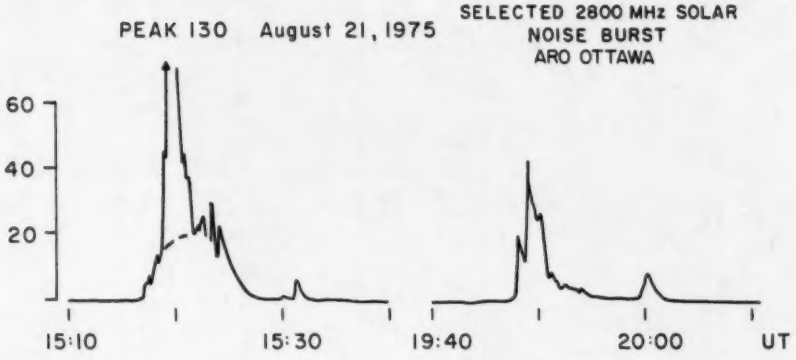
1 Simple 1	6 Minor	22 Simple 3F	27 Rise and Fall	32 Absorption	44 Noise Storm in Progress
2 Simple 1F	7 Minor +	23 Simple 3AF	28 Precursor	40 Fluctuation	45 Complex
3 Simple 2	8 Spike	24 Rise	29 Post Burst Increase	41 Group of Bursts	46 Complex F
4 Simple 2F	20 Simple 3	25 Rise A	30 Post Burst Increase A	42 Series of Bursts	47 Great Burst
5 Simple	21 Simple 3A	26 Fall	31 Post Burst Decrease	43 Onset of Noise Storm	48 Major
					49 Major +

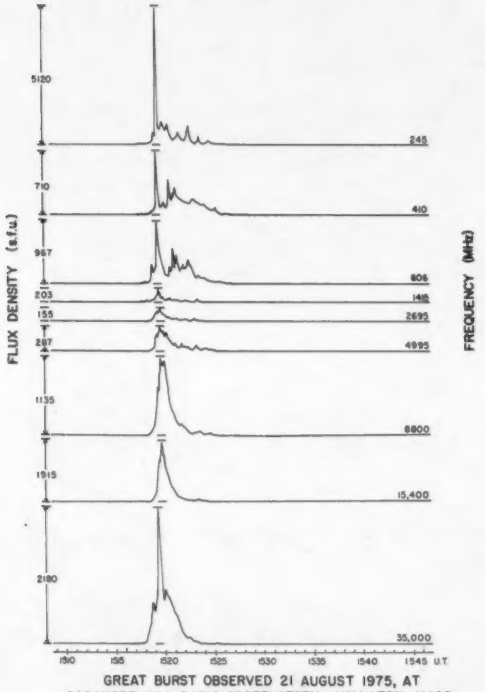
SELECTED SOLAR NOISE BURSTS

10, 21 AUGUST 1975



FOUR FLUX UNITS BACKGROUND DECLINE
IN FOUR HOURS





GREAT BURST OBSERVED 21 AUGUST 1975, AT
SAGAMORE HILL RADIO OBSERVATORY, HAMILTON, MASS.

SOLAR WIND

Interplanetary Scintillations

AUGUST 1975 .

UCSD 74MHZ SCINTILLATIONS

DAY	3C48		3C144		3C147		3C161		3C237	3C273		3C298		3C459
	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL ERR	VEL	ERR	VEL	ERR	VEL ERR
2	362	42			552	38	432	25		413	63	287	23	
4	430	*										396	48	
5	351	56	459	86										
6	400	85												
7												357	*	
8	311	*												
9			429	21										
10			401	74										
11	295	43	467	126			494	*						
12							403	80		395	63	315	23	
13			314	52			399	54						
14	367	54	429	17			538	120						
15	552	169	525	73			431	34						
16	458	68	415	29						403	124			
17	327	48	452	45	603	134	341	68		375	61			
18	415	46								267	30	361	24	
19												239	16	
22	556	83												
23	467	93					518	32						
24												250	60	
27			333	69			779	250						
28	470	110	392	54			1025	300				282	23	
28												362	60	
29			323	51	596	159								
30			434	120						241	39	328	64	
31			409	19						219	46			

AUGUST	5				15				25			
	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON
3C48	13.	12.	1.08	15.	12.	12.	1.12	14.	12.	12.	1.16	12.
3C144	17.	6.	0.76	41.	16.	6.	0.86	31.	15.	6.	0.93	22.
3C147	16.	27.	0.79	33.	15.	22.	0.87	27.	15.	17.	0.93	19.
3C161	18.	-22.	0.71	36.	17.	-15.	0.79	31.	17.	-9.	0.87	25.
3C237	22.	-12.	0.31	-70.	21.	-25.	0.16	-77.	20.	-65.	0.07	64.
3C273	24.	6.	0.79	-38.	23.	7.	0.68	-47.	22.	9.	0.55	-57.
3C298	1.	10.	0.98	-17.	1.	12.	0.93	-21.	0.	16.	0.86	-30.
3C459	10.	8.	1.25	8.	9.	8.	1.27	6.	9.	9.	1.29	4.

* indicates data for which no error estimate is available, because only two antennas were operating.

3C273 observed at 0 hr.UT before August 9, at 23 hr.UT after August 9

3C298 observed at 0 hr.UT before August 27, at 23 hr.UT after August 27

SOLAR X–RAYS BY SATELLITE
SMS GOES
AUGUST 1975

.5 - 4Å Hourly Averages (10^{-6} watts/m^2)

MO DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
8/ 1	0.09	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B	B	B	0.02	0.01	0.02	B
8/ 2	0.05	0.04	B	B	0.01	B	B	0.02	B	0.02	0.04	0.03	B	B	B	B	B	B	B	B	0.02	0.01	B	B	0.01
8/ 3	0.01	B	0.01	0.15	0.19	0.03	B	B	B	B	B	B	0.03	0.07	B	B	B	B	B	B	B	B	B	B	0.02
8/ 4	B	0.02	B	B	B	B	0.03	B	B	B	B	0.01	B	0.06	B	B	B	B	B	B	B	B	B	B	B
8/ 5	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	B
8/ 6	B	B	B	B	B	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/ 7	0.01	0.02	B	0.01	B	B	B	B	B	B	B	B	B	B	B	0.03	B	B	B	B	B	B	B	B	B
8/ 8	B	B	B	B	B	B	0.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/ 9	B	B	0.01	B	B	B	B	B	B	M	M	M	M	M	B	B	B	B	B	B	1.59	B	0.10	B	0.09
8/10	B	0.15	B	1.89	B	B	0.03	B	B	0.01	B	B	B	0.01	1.60	2.78	B	B	0.03	B	0.01	B	B	B	0.27
8/11	B	B	B	B	B	B	B	B	M	M	M	M	M	M	M	M	M	M	M	M	M	M	B	M	B
8/12	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	B	B	B
8/13	B	B	B	B	0.01	B	B	B	B	M	M	M	M	M	B	B	B	B	B	0.11	B	B	B	B	B
8/14	B	B	B	B	B	B	0.08	B	B	B	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/15	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/16	B	B	B	B	B	B	B	B	B	B	B	B	0.19	0.28	B	B	B	B	B	B	B	M	B	B	0.02
8/17	B	B	B	B	B	B	0.05	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/18	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	M	B
8/19	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/20	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/21	B	B	B	B	B	B	B	B	0.03	B	B	B	B	B	B	0.22	B	B	B	0.06	0.01	B	B	B	0.01
8/22	B	0.14	B	B	B	0.07	0.14	B	B	0.02	0.06	B	0.09	B	B	B	B	B	B	B	B	B	0.01	B	0.02
8/23	B	B	B	B	B	B	0.10	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/24	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/25	B	B	B	B	0.01	B	B	B	B	B	0.20	B	B	B	B	B	B	B	B	B	0.02	B	B	B	B
8/26	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/27	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	B	B	B	B
8/29	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B
8/30	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/31	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B	B	B

Note: "B" indicates the flux was below the cut-off levels.
"M" denotes periods of missing data.

SOLAR X-RAYS BY SATELLITE
SMS GOES
AUGUST 1975

1 - 8Å Hourly Averages (10^{-5} watts/m^2)

MO	DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
8/	1	0.07	0.05	0.01	0.02	B	B	B	B	B	B	0.01	0.02	0.01	0.01	0.01	B	0.02	0.03	0.01	0.01	0.02	0.03	0.03	0.04	0.01
8/	2	0.07	0.07	0.02	0.01	0.03	0.02	0.01	0.04	0.03	0.06	0.06	0.05	B	0.05	0.02	0.01	0.01	0.02	0.01	0.02	0.03	0.03	0.02	0.02	0.02
8/	3	0.02	0.02	0.01	0.12	0.21	0.05	0.02	0.01	0.01	0.02	0.02	B	0.05	0.09	0.02	0.01	0.01	B	0.02	0.02	0.02	0.02	0.02	B	0.03
8/	4	0.01	0.02	0.02	0.01	0.01	B	0.04	0.01	B	0.02	0.01	0.05	B	0.06	B	B	B	B	B	B	B	B	B	B	0.01
8/	5	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	0.02	B	B	B	B
8/	6	B	B	B	B	B	B	B	B	B	B	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.03	0.02	0.01	0.02	0.01	0.02	0.01	B
8/	7	0.02	0.03	0.01	0.03	0.02	0.02	0.02	B	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.04	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.01
8/	8	B	B	0.01	0.01	0.01	0.01	0.04	B	B	0.02	0.02	0.01	B	B	B	B	0.01	B	B	B	B	B	B	B	B
8/	9	B	B	0.02	B	B	B	B	B	B	M	M	M	M	M	B	B	B	B	B	B	0.76	B	0.20	B	0.07
8/	10	B	0.93	0.71	1.94	B	B	0.04	0.01	0.01	0.03	0.01	0.01	0.01	0.03	0.78	1.09	0.01	0.01	0.05	0.02	0.03	0.02	0.01	0.01	0.26
8/	11	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	M	M	M	M	M	M	M	M	M	M	M	M	M	M	B	M	B
8/	12	B	B	0.02	0.01	B	B	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	B	0.01	0.01	B	0.01	B	B	B	B	B
8/	13	B	B	0.01	0.02	B	0.01	B	B	0.01	M	M	M	M	M	B	B	B	B	B	0.12	B	B	B	B	0.01
8/	14	B	0.01	B	B	B	B	0.09	B	B	B	0.02	0.02	B	B	B	B	B	B	B	B	B	B	B	B	B
8/	15	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01	B	B	B	B	B
8/	16	B	B	B	B	B	B	B	B	B	0.60	1.95	0.26	0.23	B	B	B	B	B	B	B	B	M	B	B	0.08
8/	17	B	B	B	B	B	B	0.06	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/	18	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	M	M	B	B	M	B
8/	19	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/	20	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/	21	B	B	B	B	B	B	B	B	0.03	B	B	B	B	B	0.01	0.15	B	B	B	0.04	0.02	B	B	B	0.01
8/	22	B	0.09	B	B	B	0.05	0.11	B	B	0.02	0.04	B	0.07	B	B	B	B	B	B	B	B	B	0.01	B	0.02
8/	23	B	B	B	B	B	B	0.11	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/	24	B	B	B	B	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/	25	B	B	B	B	0.01	B	B	B	B	B	0.06	0.03	0.02	B	B	B	B	B	B	B	B	B	B	B	B
8/	26	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/	27	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/	28	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	B	B	B	B
8/	29	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	0.02	B
8/	30	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
8/	31	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B

Note: "B" indicates the flux was below the cut-off levels.
"M" denotes periods of missing data.

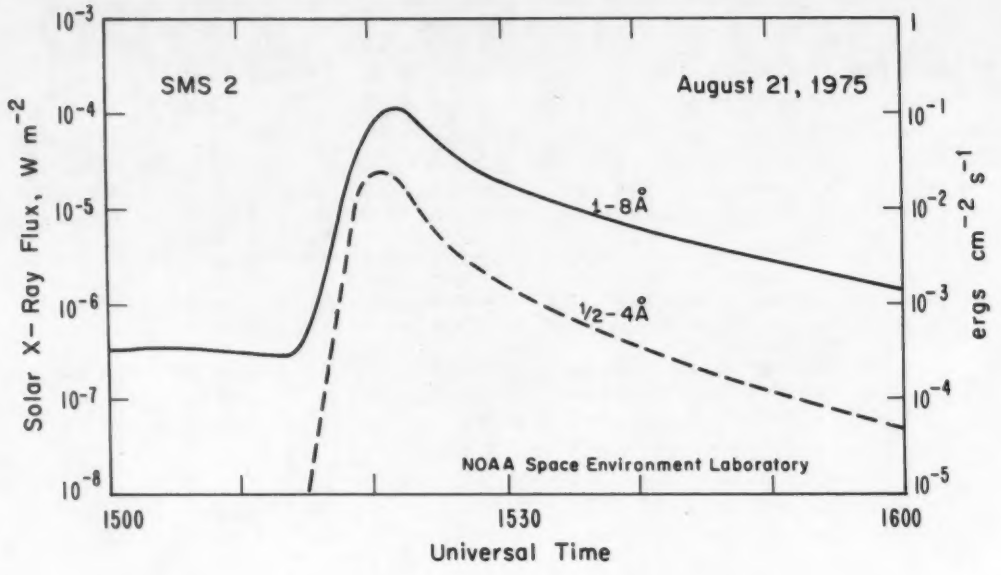
SOLAR X-RAYS BY SATELLITE

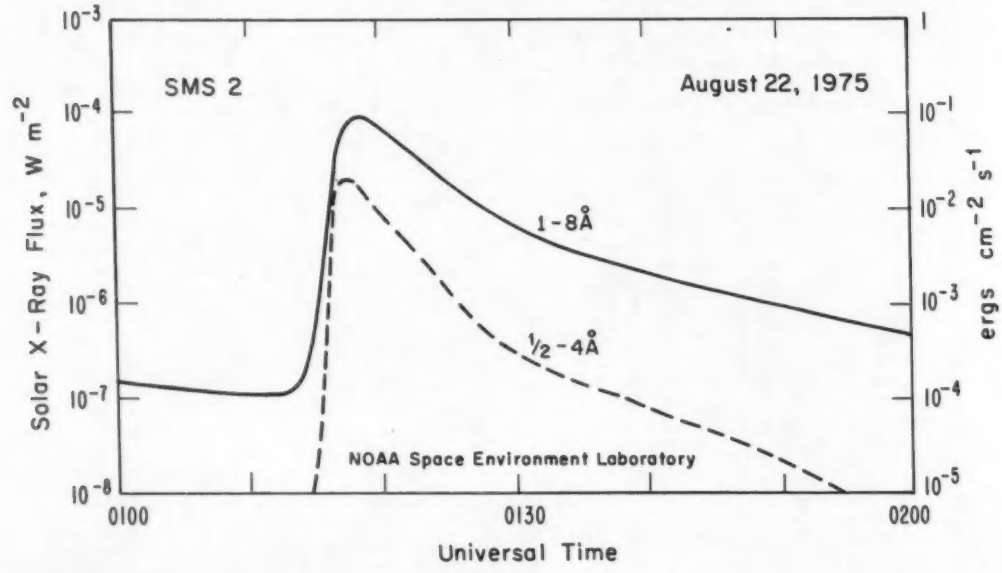
SMS-1 GOES

AUGUST 1975

DAY	BEGIN TIME	.5-4A Wm^{-2}	1-8A Wm^{-2}	MAX TIME	.5-4A Wm^{-2}	1-8A Wm^{-2}	1/2P TIME	.5-4A Wm^{-2}	1-8A Wm^{-2}
1	0317	1.2E-09	9.1E-07	0327	1.5E-07	3.1E-06	0344	3.1E-08	2.0E-06
1	1625	0.0E+00	6.7E-07	1700	4.3E-07	5.1E-06	1732	5.2E-08	2.9E-06
1	2143	3.2E-08	1.6E-06	2147	9.3E-07	5.5E-06	2149	8.0E-07	3.6E-06
2	0010	2.5E-07	4.4E-06	0105	1.9E-06	1.7E-05	0115	4.3E-07	1.1E-05
2	0909	7.2E-08	2.1E-06	0914	6.4E-07	6.8E-06	0922	2.2E-07	4.5E-06
2	1016	2.4E-07	3.8E-06	1023	4.4E-06	1.4E-05	1031	5.4E-07	9.0E-06
2	1110	1.5E-08	1.7E-06	1114	1.6E-06	1.3E-05	1129	2.8E-07	7.3E-06
2	1425	0.0E+00	1.0E-06	1430	7.3E-07	6.5E-06	1432	2.2E-07	3.8E-06
2	1744	0.0E+00	9.4E-07	1759	2.8E-07	4.3E-06	1808	4.7E-08	2.6E-06
2	1919	0.0E+00	7.4E-07	1927	3.3E-07	5.0E-06	1934	6.1E-08	2.9E-06
2	2003	0.0E+00	6.9E-07	2010	8.7E-07	7.5E-06	2026	1.3E-07	4.1E-06
2	2105	4.9E-08	1.2E-06	2121	2.2E-07	3.8E-06	2129	4.6E-08	2.5E-06
3	0010	2.8E-09	1.3E-06	0015	9.1E-07	8.4E-06	0017	3.2E-07	4.9E-06
3	0102	0.0E+00	9.1E-07	0105	1.0E-07	3.1E-06	0111	3.8E-08	2.0E-06
3	0314	0.0E+00	7.0E-07	0359	6.5E-06	4.6E-05	0402	5.8E-06	2.4E-05
3	0531	8.5E-08	3.2E-06	0534	1.2E-06	1.0E-05	0539	4.5E-07	6.8E-06
3	0948	0.0E+00	8.2E-07	0954	7.2E-07	6.1E-06	1001	1.0E-07	3.5E-06
3	1217	1.2E-08	1.3E-06	1222	2.8E-06	1.8E-05	1228	4.8E-07	9.8E-06
4	1129	2.1E-07	3.0E-06	1133	2.3E-07	3.8E-06	1138	1.3E-07	3.4E-06
6	1228	0.0E+00	1.2E-06	1232	1.9E-07	3.5E-06	1236	1.7E-08	2.4E-06
6	1246	0.0E+00	1.2E-06	1250	1.5E-07	3.1E-06	1254	2.8E-08	2.1E-06
6	1838	0.0E+00	1.0E-06	1844	2.3E-07	3.1E-06	1846	4.4E-08	2.1E-06
6	2016	4.0E-09	1.1E-06	2019	3.0E-07	3.4E-06	2021	7.4E-08	2.2E-06
6	2026	0.0E+00	1.0E-06	2030	3.8E-07	4.5E-06	2036	7.8E-08	2.8E-06
6	2144	1.2E-08	1.1E-06	2153	8.4E-07	3.0E-06	2210	4.2E-08	2.1E-06
7	0003	0.0E+00	8.5E-07	0011	2.7E-07	4.7E-06	0014	9.2E-08	2.8E-06
7	0129	0.0E+00	8.7E-07	0137	1.3E-06	1.2E-05	0140	3.1E-07	6.6E-06
7	0258	5.0E-08	1.8E-06	0304	1.1E-06	1.0E-05	0307	2.4E-07	6.1E-06
7	0322	0.0E+00	1.1E-06	0329	5.2E-07	3.1E-06	0336	2.0E-08	2.1E-06
7	0422	2.0E-08	1.7E-06	0430	3.6E-07	4.7E-06	0433	1.2E-07	3.2E-06
7	1139	0.0E+00	8.5E-07	1144	2.8E-07	3.2E-06	1151	1.2E-08	2.0E-06
7	1246	0.0E+00	6.6E-07	1252	5.2E-07	5.7E-06	1259	7.5E-08	3.2E-06
7	1458	1.9E-08	1.8E-06	1503	1.3E-06	1.1E-05	1505	3.4E-07	6.4E-06
7	1511	7.7E-08	2.4E-06	1514	1.1E-06	1.0E-05	1517	4.0E-07	6.2E-06
7	1525	2.3E-07	3.9E-06	1531	4.2E-07	5.3E-06	1533	2.3E-07	4.9E-06
9	0223	0.0E+00	4.1E-07	0233	5.1E-07	7.1E-06	0240	7.6E-08	3.7E-06
10	0913	1.7E-08	1.2E-06	0921	3.6E-07	5.9E-06	0925	7.5E-08	3.5E-06
10	0947	0.0E+00	1.1E-06	0954	2.2E-07	3.4E-06	1001	6.2E-08	2.2E-06
10	1314	0.0E+00	8.6E-07	1345	2.2E-07	6.2E-06	1351	6.0E-08	3.5E-06
10	1407	1.9E-07	2.9E-06	1425	1.1E-06	1.3E-05	1436	3.2E-07	7.8E-06
10	1724	0.0E+00	8.7E-07	1733	1.9E-09	7.1E-06	1735	0.0E+00	4.0E-06
10	1824	0.0E+00	9.5E-07	1832	2.6E-06	2.0E-05	1839	7.0E-07	1.0E-05
10	2040	2.5E-07	4.3E-06	2046	3.6E-07	6.7E-06	2053	1.5E-07	5.5E-06
10	2144	1.4E-10	1.1E-06	2149	2.3E-07	3.4E-06	2152	1.3E-08	2.3E-06
12	1623	0.0E+00	6.6E-07	1628	2.6E-07	3.5E-06	1634	3.4E-08	2.1E-06
14	0111	0.0E+00	2.9E-07	0116	2.1E-07	3.1E-06	0130	2.2E-08	1.7E-06
14	1029	0.0E+00	4.6E-07	1111	1.4E-07	3.8E-06	1123	3.3E-08	2.1E-06
21	0833	0.0E+00	7.8E-09	0846	1.6E-06	1.4E-05	0855	3.3E-07	7.1E-06
21	1349	0.0E+00	1.4E-07	1431	8.4E-08	1.1E-05	1433	3.2E-08	5.7E-06
21	1512	0.0E+00	9.0E-08	1523	1.7E-05	9.5E-05	1525	5.2E-06	4.8E-05
21	1946	0.0E+00	2.7E-07	1952	4.0E-06	2.3E-05	2000	1.1E-06	1.2E-05
22	0112	1.9E-09	3.0E-09	0118	2.0E-05	8.6E-05	0122	4.6E-06	4.3E-05
22	0520	1.4E-10	6.9E-08	0529	5.7E-06	3.3E-05	0532	1.5E-06	1.6E-05
22	0556	3.7E-08	1.4E-06	0605	8.8E-06	5.1E-05	0611	2.4E-06	2.6E-05
22	0918	0.0E+00	1.4E-07	0924	1.3E-06	9.8E-06	0932	3.5E-07	5.0E-06
22	1015	0.0E+00	1.7E-08	1032	3.0E-06	2.6E-05	1034	8.5E-07	1.3E-05
22	1159	0.0E+00	1.6E-09	1235	6.9E-06	4.7E-05	1238	2.2E-06	2.3E-05
24	1435	0.0E+00	1.4E-09	1457	7.9E-08	1.0E-05	1459	0.0E+00	5.2E-06

SELECTED BURSTS (X-RAY)





INFERRED IP MAGNETIC FIELD

BARTELS ROTATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1901	JUL 23	TA	A*	TA	A*	T	A*	T	A	A	A	A	A	A	T	A*	TA	T	T	A	A	A	A	TA	A	T	-	AT	A	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	A	A	TA	-
1902	AUG 19	A	-	A	-	A	A	A	A	A	A	A	A	A	A	TA	T	A	A	A	A	A	A	A	A	T	T	T	A	A	A	A	A	A	T	T	T	T	T	T	T	T	TA	A	A	A	TA	T	A	A	A	-
1903	SEP 15	A	A	TA	T*	A	A	A	A	A	A	TA	A	A	A	A	T	T	A	TA	T	A	A	A	A	-	A	-	A	-	A	-	A	-	A	T	T	T	T	T	T	T	T	A	-	T	T	T	A	TA	A	TA	A	T
1904	OCT 12	T	T	A	-	TA	-	A	A*	A	T	A	T	TA	T	A	A	A	A	A	T	TA	A	TA	A	TA	A	TA	T	A	T	A	T	T	A	T	A*	T	T	T	A	-	A	A*	T	AT	T	T	TA	T	TA	*	A	A
1905	NOV 8	A	A	T	A	AT	A	AT	AT	TA	AT	T	AT	A	T	TAT	*	A	A	A	A	A	A	*	TA	AT	A	A	A	A	TA	AT	T	T	A	T	TA	TA	A	T	A	T	AT	T	A	T	TA	A	A	A	A	A	AT	AT	T	T
1906	DEC 5	T	T	T	T	TA	AT	T	-	T	-	T	T	T	T	A	AT	A	-	TA	T	TA	T	A	A	AT	-	A	-	A	T	T	TA	A	A	T	T	T	T	T	T	T	A	A*	A	T	T	T	T	T	T	TA	AT	TA	T
1907	1973 JAN 1	T	T	T	T	T	T	T	T	TA	T	T	T	A	T	AT	-	A	AT	A	T	A	-	AT	-	A	TA	A	A	A	A	A	A	A	A	A	A	A	T	T	A	-	T	-	T	T	T	-	TA	T	T	-	T	T	T
1908	JAN 28	T	T	A	A	T	T	TA	T	AT	T	T	T	T	T	A	T	A	A	A	TA	A	A	A	A	A	AT	T	TA	A	TA	A	TA	A	AT	AT	-	A	A	A	A	T	T	T	AT	T	T	T	T	T	T	T	T	T
1909	FEB 24	AT	T	AT	T	AT	TA	A	T	T	T	T	-	AT	TA	AT	A	T	A	T	T	A	A	A	A	A	A	A	A	AT	TA	A	A	T	A	A	A	T	A	A	T	A	AT	TA	A	A	T	T	T	T	T	T	T
1910	MAR 23	T	T	T	T	T	T	T	T	A	T	T	T	T	T	T	T	TA	AT	A	T	TA	A	A	A	A	A	-	A	A	A	A	A	T	TA	A	A	A	A	A	A	AT	AT	T	-	T	T	A	T	T	T	T	T	AT	T*	T	T*
1911	APR 19	T	T	T	AT	T	T-	A	T	T	T	AT	T	A	A	AT	T	T	T	TA	A	A	A	A	A	AT	A*	A	A	-	AT	A	TA	A	A*	-	T	A	A	T	TA	T	T*	-	AT	A	A	T	T	-	A	-	T	A	A*
1912	MAY 16	T	T	T	T	T	T	T	T	AT	T	-	T	-	TA	T	T	A	A	AT	AT	T	T	AT	A	A	A	-	A	A	A	-	A	A	A	A*	A	A	A	A	A	A	A	A	-	T	*A	-A	A	A	-	-	T	T	T	T
1913	JUN 12	TA	T*	-	T	*	-	T	T	TA	T*	A	A	T	T	-	T	*	T	*	T	T	T	T	T	AT	AT	A	A	A	A	TA	T	*	-	T	T	-	A	A	A	A	A	A	A*	A	AT	T	-	T	T	A	A	-	A	T	T
1914	JUL 9	T	T	T	T	A	A	T	T	-	T	AT	A	T	T	*	A	T	*	-	A	A	AT	*	-	A	A	T	T	A	TA	-	T	T	T	T	T	T	A	A	-	A*	A	A	A	A*	A	TA	-	A	A	TA	T	T*	T	*	T	T
1915	AUG 5	T	T	A	A	A	A	T	AT	A	A	A	A	T	T	T*	T	T	AT	*	T	AT	T	T	A	A	AT	T	T	A	A	A	TA	T	T	T	T	A	A	A	A	A	A	A	A	A	T	A*	A	AT	A	A	A	A	T	TA	A	A*	A	A
1916	SEP 1	T	TA*	T	T	T	T	A	AT	A	A	A	TA*	A	A	A	*	T	T	T	T	T	T	T	T	A	A	A	A	A	A	T	T	T	T	T	T	T	A	T	A	A	T	*	A	A	A	A	T	A	A	T	*	A	A	A	A	TA	A*	A	A
1917	SEP 28	A	A*	TA	A	T	AT	T	T	A	A	A	A	A	A	T	A	AT	A*	AT	T*	AT	AT	T	T	T	T	T	T	T	*	T	T	T	T	T*	T	T	T	T*	AT	T	TA	A	A	T	-	A*	A	A	A	A	A	T	AT	A	AT	T	T	T
1918	OCT 25	T	T	T	T	A	TA	A	A	A	T	A	T*	T	A	T	A	A	A	A	A	A	A	T	A	TA	T	T	AT	T	T	T	T	T	T	TA	T	T	T	T	*	A	A	A	A	AT	A	AT	TA	A	T	A	-	A	A
1919	NOV 21	A	*	T	T	T	-	A	A	A	A	AT	T	A	T	A	T*	A	TA	A	A	A	A	A	A	T	TA	T	T	T	T	T	T	T	*	T	T	T	T	TA	TA	A	A	T	T	T	-	T	A	A	TA	A	A	T	T	-
1920	DEC 18	T	T	AT	A	A	T	A	T	A	TA	A	T	A	*	A	A	A	*	AT	T	T	T	T	T	T	T	T	*	T	T	T	T	T	T	A	T	AT	T	T	A	T	T	T	T	T	AT	TA	T	T	T	A	A	T	AT	T
1921	1974 JAN 14	T	A	A	T	-	T	T	A	A	T	A	A	A	A	A	A	A	-	A	A	-	AT	-	T	T	T	TA	T	*	T	A	T	T	T	T	A*	AT	T	AT	T	TA	A	T	-	T	T	T	T	T	T	T	TA	A
1922	FEB 10	A	-	A	-	A	*	A	A	A	A	A	A	A	A	TA	T	A	A	A	A	A	T	*	T	T	T	T	T	T	T	A	T	-	T	T	T	T	T	T	TA	T	T	T	T	T	T	T	T	T	T	A	A	A	A
1923	MAR 9	A	A	A	A	A	A	A	A	A	A	A	A	A	T	T	TA	TA	A	AT	A	A	A	A	T	A	T	TA	T	A	T	T	A	T	A	A	T	A	A	T	A	T	T	T	T	T	T	T	TA	T	T	TA	T	TA	A	TA	-	A	TA
1924	APR 5	A	A	A	A	A	-	TA	A	A	A	A	A	A	*	A	A	A	A	A	A	A	A	A	T	T	TA	TA	TA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	A	TA	A	AT	T	A	A	-	-	-
1925	MAY 2	-	-	A	A	A	A*	AT	T	A	AT	AT	T	A	T*	TA	A	A	A	TA	T*	A	A*	AT	AT	T	T	T	T	T	T	T	T	T	TA	T	*	T	T	T	T	T	T	T	T	TA	-	T	T	TA	T*	T	T	A	-	-	-
1926	MAY 29	T	T	A	A	A	*	-	A	A	A	A	*	A	A	*	-	TA	*	A	A	A	A	A	T	T	T	T	TA	TA	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	AT	*	-	T
1927	JUN 25	TA	TA	A	A	-	A	-	A	A	T	A	A	A	A	A	A	A	A	-	TA	TA	-	T	T	T	T	T	T	T	T	T	-	T	T	-	T	T	T	T	T	T	T	T	T	A	AT	AT	T	T	T	T	T	T	T
1928	JUL 22	T	T	A	A	A	A	AT	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	T	-	T	-	T	-	T	-	T	-	AT	-	AT	-	T	-	TA	-	T	-	T	-	T	-	T	-	T	-	T	-
1929	AUG 18	AT	-	A	-	A	-	A	-	A	-	A	-	A	-	AT	-	TA	T	T	T	T	T	T	T	T	T	T	TA	AT	T	T	T	AT	T	T	TA	A	AT	-	T	T	T	T	T	T	T	-	A	-
1930	SEP 14	AT	T	T	TA	AT	A*	A	A	A	A	A	A	A	TA	A	AT	A	A	A	AT	T	TA	A	T	TA	T	T	T	T	T	T	T	-	T	T	T	T	AT	T	T	T	T	T	T	T	TA	T	T	A	A	T	T	T
1931	OCT 11	T	T	TA	T	A	A	A	A	A	A	A	A	A	A	A	A	AT	A	A	A	TA	A	A	A	T	T	AT	-	T	T	AT	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	TA	T	T	T	T
1932	NOV 7	TA	-	T	-	A	-	A	-	A	A	A	A	A	A	A	A	A	-	A	-	AT	-	TA	A	T	T	T	T	T	T	T	A	T	*	T	A	T	T*	AT	T	T	T	T	T	T	T	T	TA	T	A	T	T	T	T
1933	DEC 4	T	T	TA	T	T	A	TA	A	A	T	A	T	A	*	AT	T*	A	T	A	*	A	T	A	A	A	A	A	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1934	DEC 31	T	A	T	T	T	T	A	TA	A	T	A	T	A	-	A	-	TA	T	A	A	AT	-	A	A	A*	A	*	T	T	T	T	T	T	T	T	T	T*	T	T*	T	T	T	T	T	T	T	T	*	A	A	A	A	TA	A	A
1935	1975 JAN 27	T	T	T	T	A	T	AT	T	A	A*	A	T-	TA	A	A	T	A	T	A	T	A	T	A	T	-	T	T	T	T	T	AT	T	T	T	T	T	T*	T	-	TA	A	T	A*	AT	T	A	TA	TA	T	A	A	A	A
1936	FEB 23	TA	A	A	A	A	A*	TA	A	A	AT	A	A	A	A	A	A	A	A	AT	T	A	A	A	A	A	T	T	T	T	T	T	A	T	A*	T	T	T	T	T	TA	T	A*	T	T	T	*	T	T	T	T	A	A
1937	MAR 22	A	A	A	A	TA	A	T	T	A	A*	A	A	A	A	A	A	A	TA	A*	T	A	A	A	T	*	TA	T	T	T	T	T	T	*	T	A	T	T	A	AT	A	T	T	T	T	A	T	A	A	T	T	T	T	A	A	A
1938	APR 18	A	A	A	A	A	A	A	A	A	*	A	A*	A	A	-	A	A	A	A	A	A	A	A	A	T	T	A	T	T	-	T	T	T	-	T	T	T	T	T	A	A*	T	T	T	T	-	A	T	AT	T	T	TA	T
1939	MAY 15	T	T	A	A	TA	TA	A	A	A	A	T	T	TA	TA	-	*	A	A	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	T	-	*	-	*	-	*	*	T	T	T	T	T	A	A
1940	JUN 11	A	A	A	A	A	A	A	A	A	A	*	-	-	-	-	-	-	-	A	A	A	A	TA	A	A	AT	A	A	A	A	A	A	T	T	T	T	T	T	A	A	TA	*	A	A	T	T	T	T	T	T*	T	T*	T	T
1941	JUL 8	A	A	A	A	A	A	A	A	TA	A	A	A	TA*	A	A	TA	TA	A	A	T	T	A	A	A	A*	-	*	A	A*	A	T	A	A	T	T	T	TA	A	AT	T	T	T	T	T	T	T	AT	AT	A	A	A	A
1942	AUG 4	A	A	A	A	A	T	A	A	T	T	AT	T	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	T	T	T	-	A	T	T	*	T	T	TA	T	T	T	T	T	T	-	AT	AT	T	T	T	A	A	A
1943	AUG 31	A	A																									

T = towards the sun
A = away from the sun
* = effect doubtful or not discernable
- = missing data

The table shows daily inferences of the polarity of the interplanetary magnetic field. The first half of the day is based principally on magnetograms produced by the magnetometer at the Vostok Antarctic Station of the USSR. The magnetometer of the U.S. Air Weather Service operated by the Air Force Cambridge Research Laboratories at the Thule Geopole Station is used for the second half of the day.

Note: Computer problems are responsible for the considerable amount of missing data in August 1974.

JULY 1975 DATA

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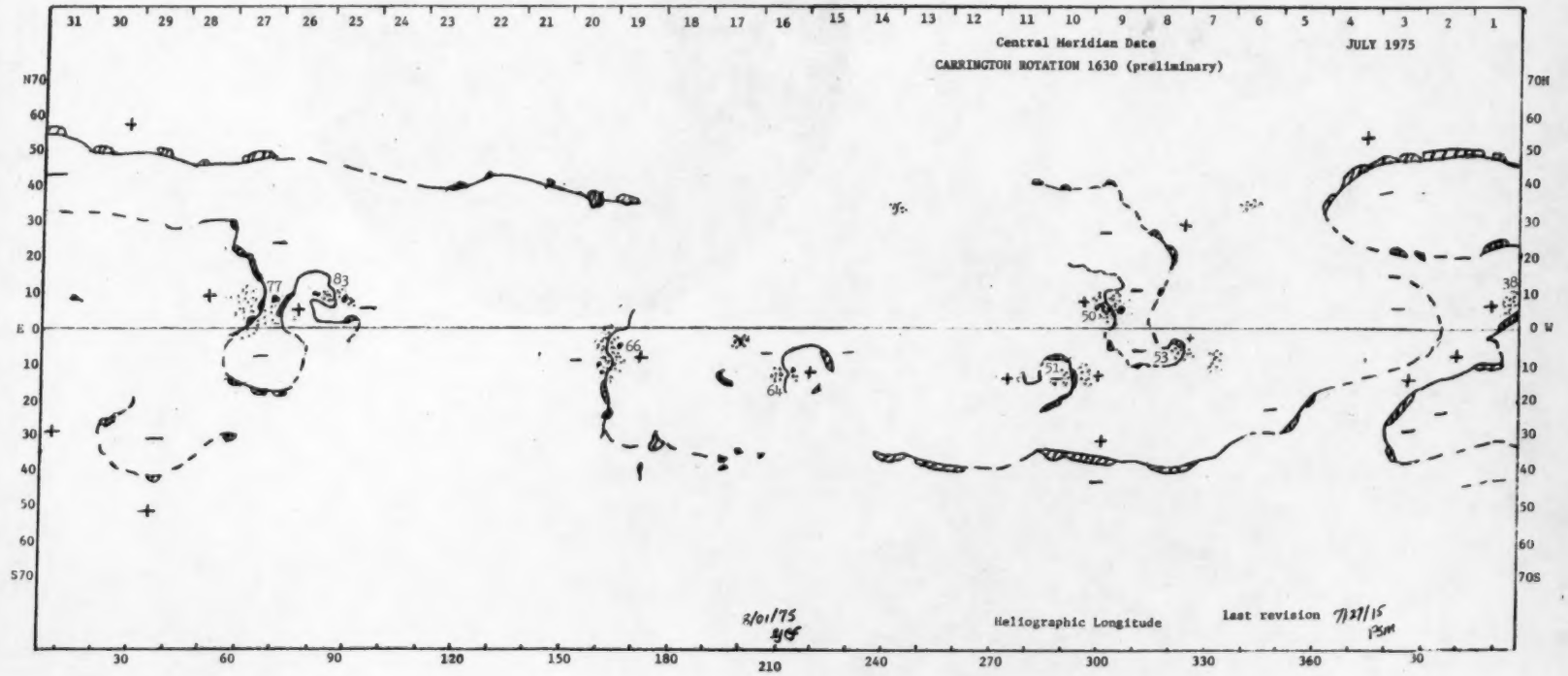
Hα SYNOPTIC CHART

JULY 1975



JULY 1, 1975 (P=-2.98, B_o=2.84, L_o=57.44)

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X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

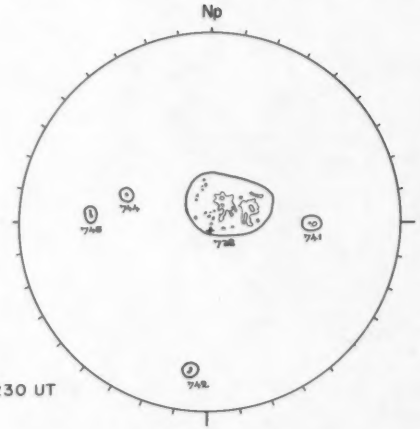
Np

Maps obtained at the following times for June 1975 showed no activity:

June		June	
1	0326 - 0424 UT	9	0700 - 0800
2	0140 - 0238	10	0615 - 0719
3	0303 - 0402	11	0343 - 0525
4	0040 - 0137	12	0415 - 0515
5	0352 - 0515	13	0932 - 1115
6	0014 - 0111	14	0330 - 0449
7	0000 - 0100	15	0515 - 0617
8	0349 - 0439	16	0500 - 0622

July 1975 data not received at time of publication.

E W



GOOD | S
38-3000 -3.0

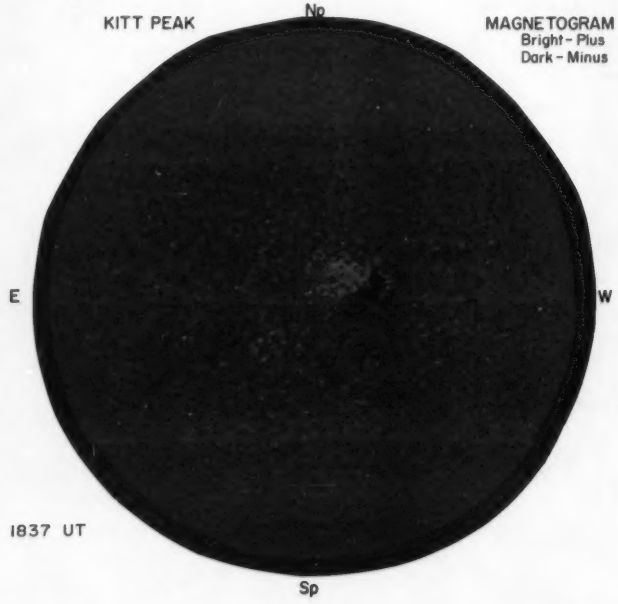
1230 UT

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

Sp

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

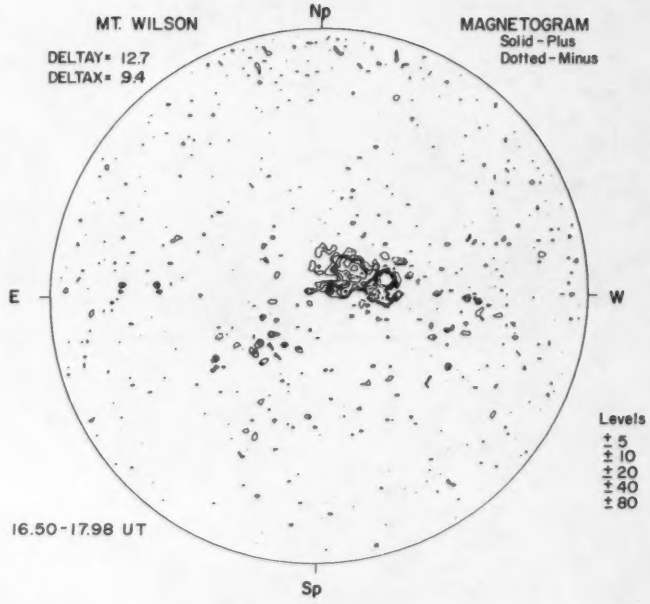


1837 UT

MT. WILSON

DELTAY= 12.7
DELTAX= 9.4

MAGNETOGRAM
Solid - Plus
Dotted - Minus



Levels
± 5
± 10
± 20
± 40
± 80

16.50-17.98 UT

01

BOULDER

Np

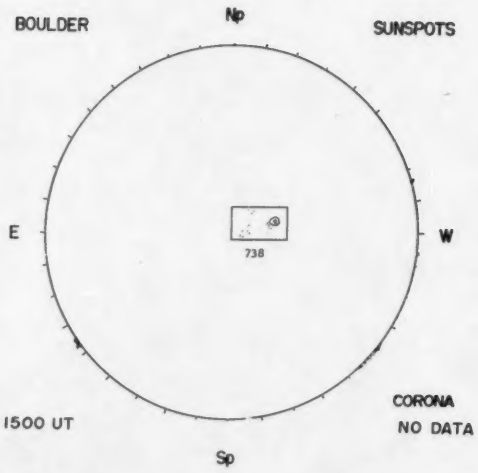
Hα

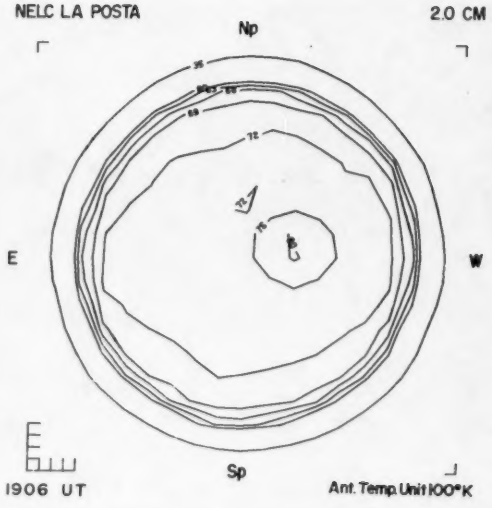
E

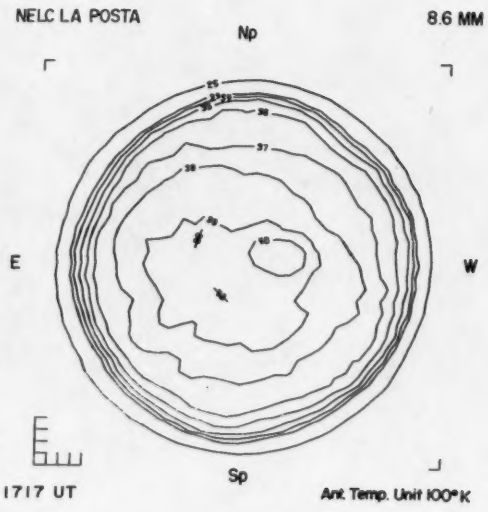
W

1519 UT

Sp







JULY 2, 1975 (P=-2.52 B_o=2.95 L_o=44.20)

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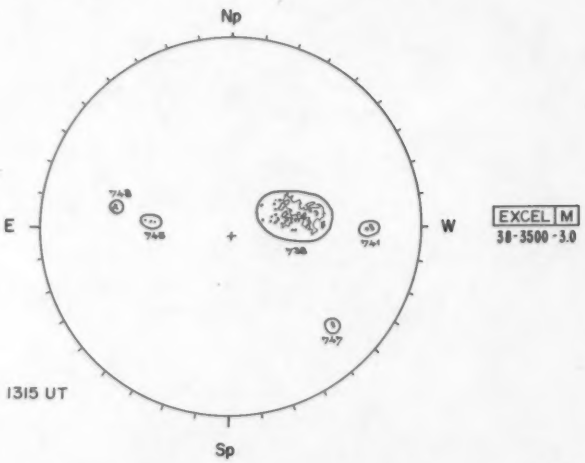
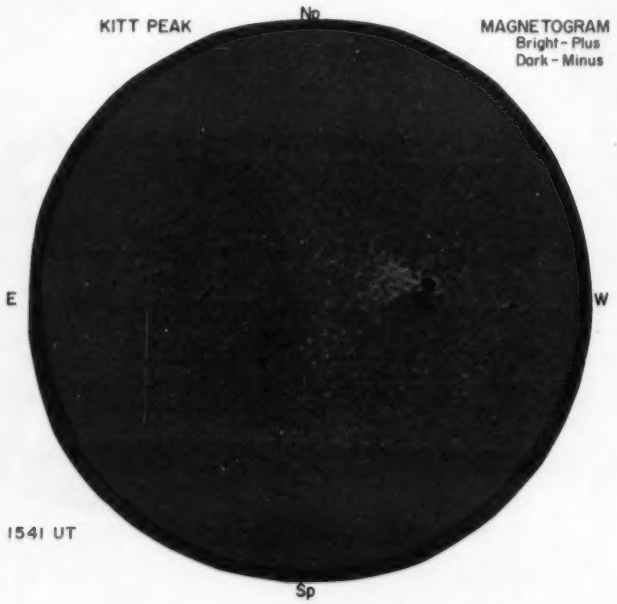
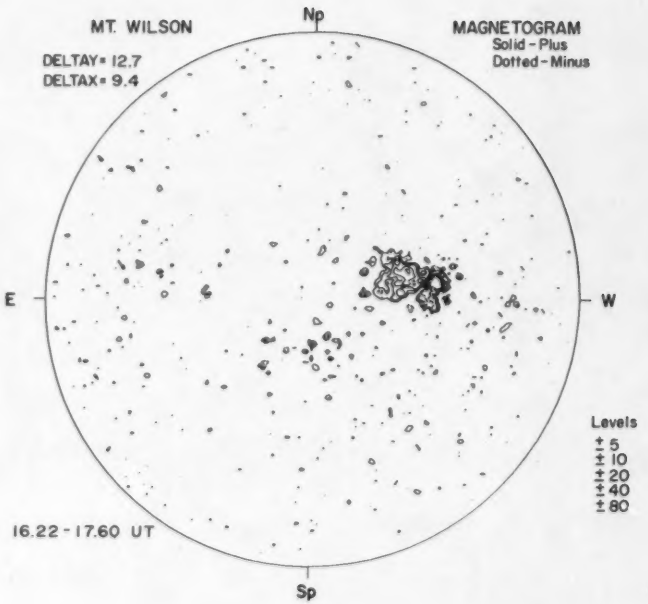
X-RAY
OSO-5

McMATH-HULBERT

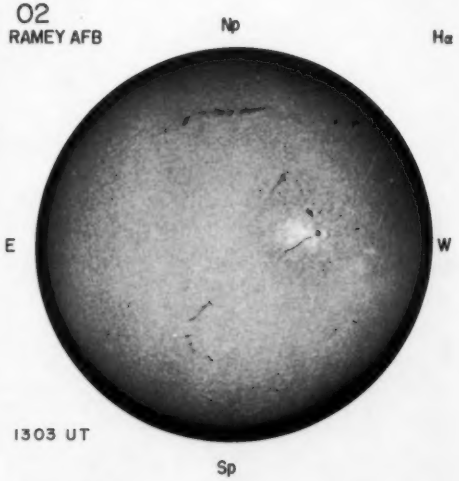
CALCIUM REPORT





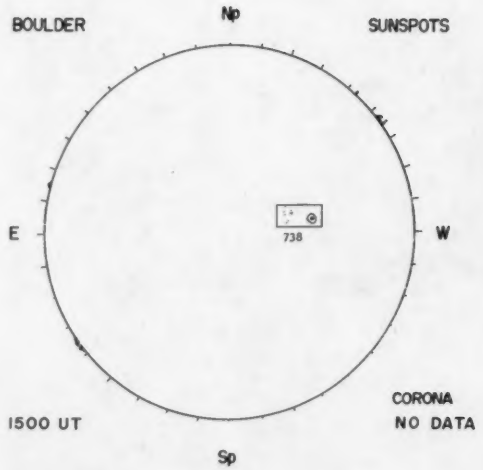


02
RAMEY AFB



1303 UT

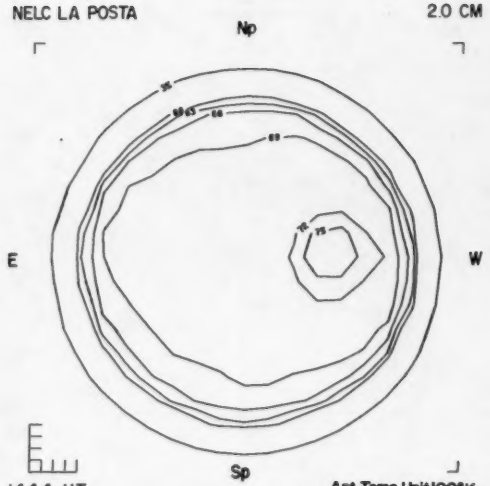
BOULDER



1500 UT

CORONA
NO DATA

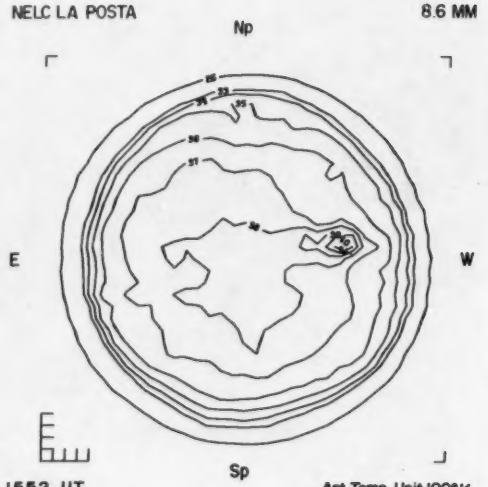
NELC LA POSTA



1444 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1552 UT

Ant. Temp. Unit 100°K

37
Jul 75

JULY 3, 1975 (P=-2.07 B_o=3.06 L_o=30.96)

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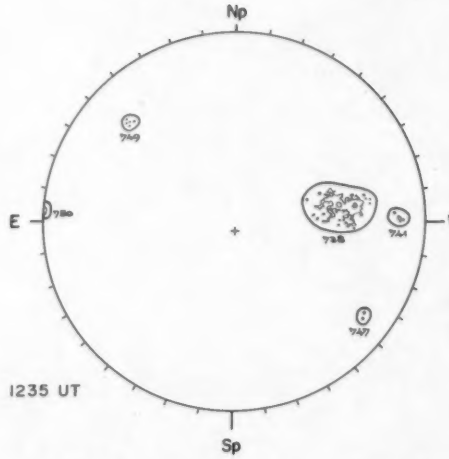
X-RAY
OSO-5

Np
E W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



1235 UT

CALCIUM REPORT

GOOD	S
38-3500-3.0	
41-0300-3.0	

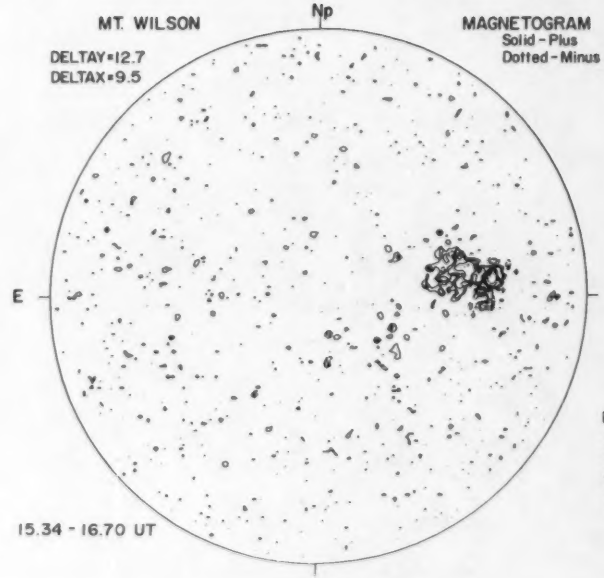
KITT PEAK

Np
E W
NO DATA
Sp

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY=12.7
DELTAX=9.5

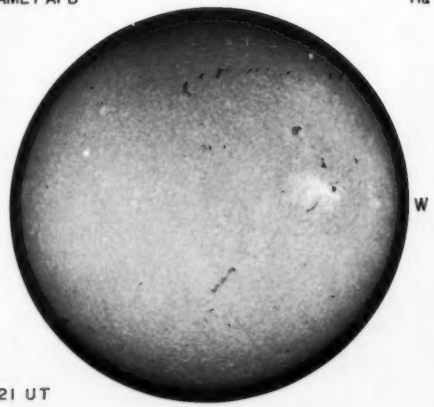


MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
±5
±10
±20
±40
±80

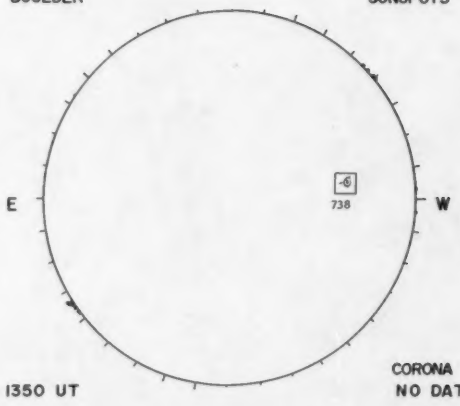
15.34 - 16.70 UT

03
RAMEY AFB



1521 UT

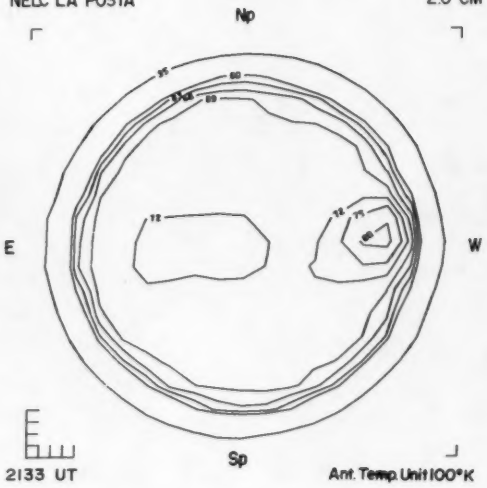
BOULDER



1350 UT

CORONA
NO DATA

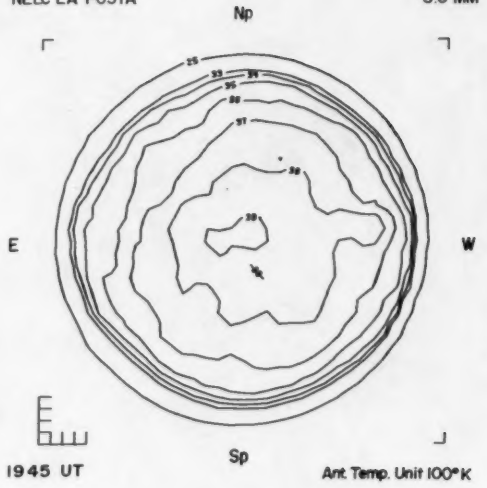
NELC LA POSTA



2133 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1945 UT

Ant. Temp. Unit 100°K

JULY 4, 1975 (P = -1.61 B_o = 3.17 L_o = 17.73)

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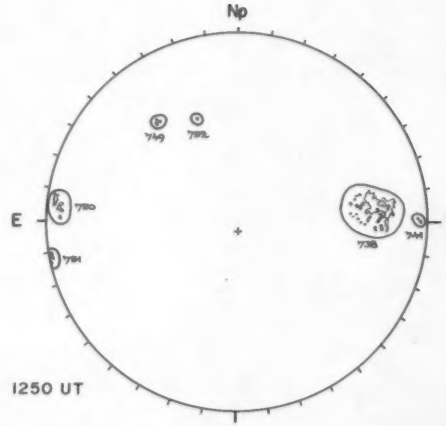
X-RAY
OSO-5

Np
E W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



1250 UT

CALCIUM REPORT

EXCEL M
38-3500 -2.5
50-0700 -2.5

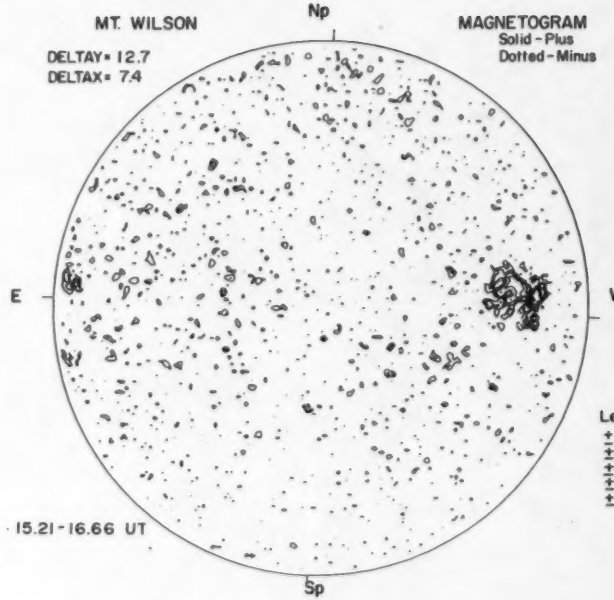
KITT PEAK

Np
E
NO DATA
W
Sp

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY = 12.7
DELTAX = 7.4



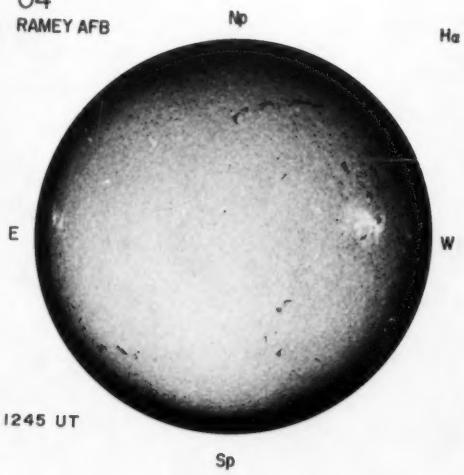
MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

15.21 - 16.66 UT

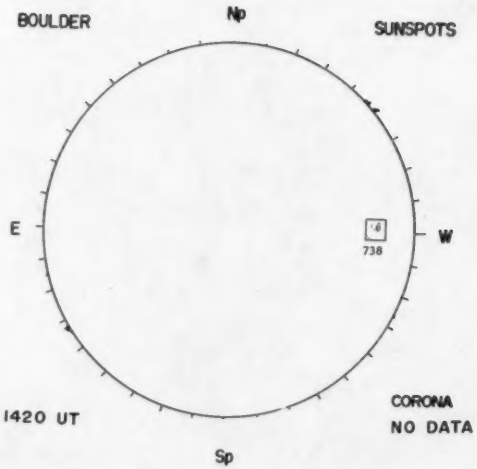
04

RAMEY AFB



1245 UT

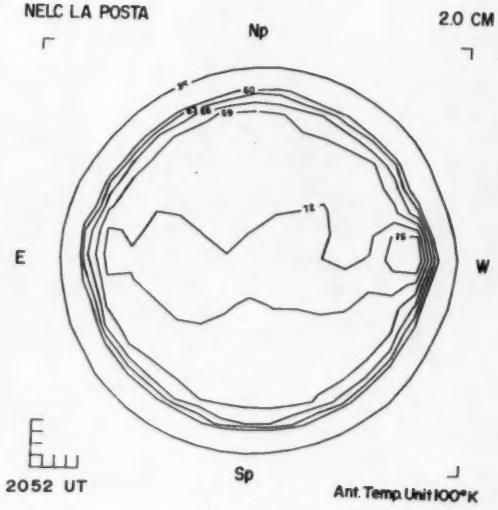
BOULDER



1420 UT

CORONA
NO DATA

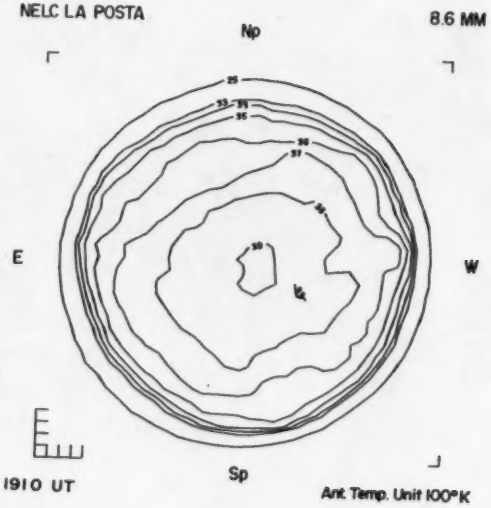
NELC LA POSTA



2052 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1910 UT

Ant. Temp. Unit 100°K

JULY 5, 1975 (P = -1.16 B_o = 3.28 L_o = 4.49)

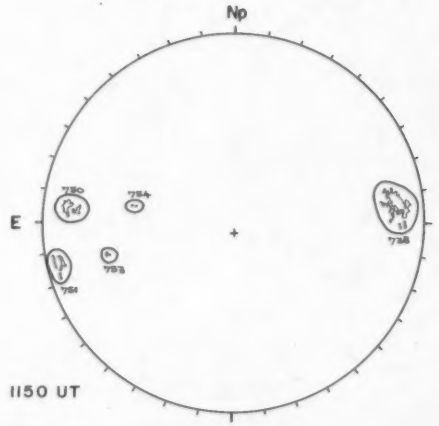
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



1150 UT

CALCIUM REPORT

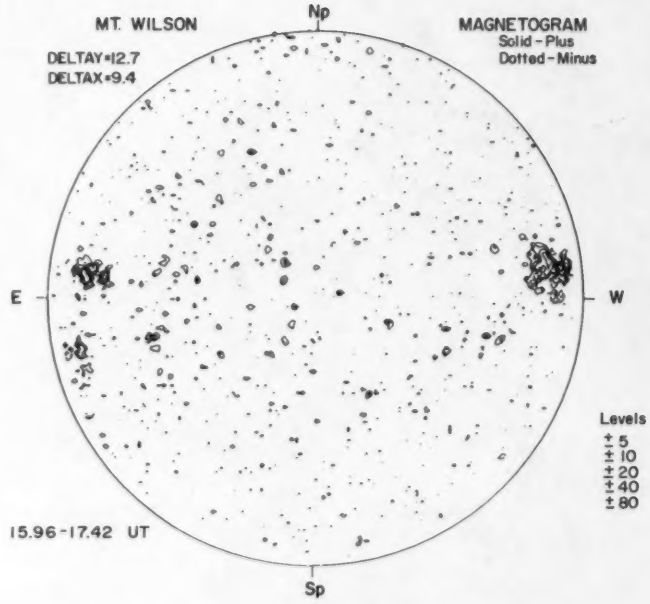
EXCEL M
50-1000 -3.0

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY=12.7
DELTAX=9.4

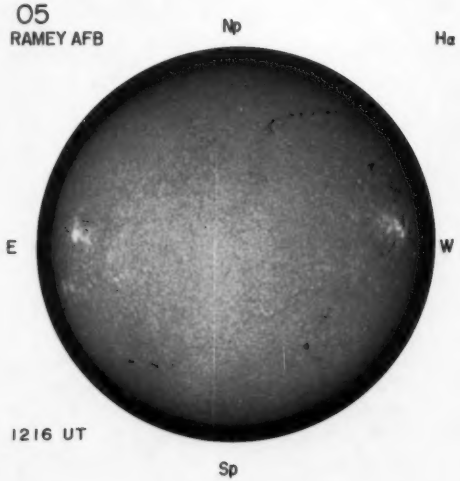


MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

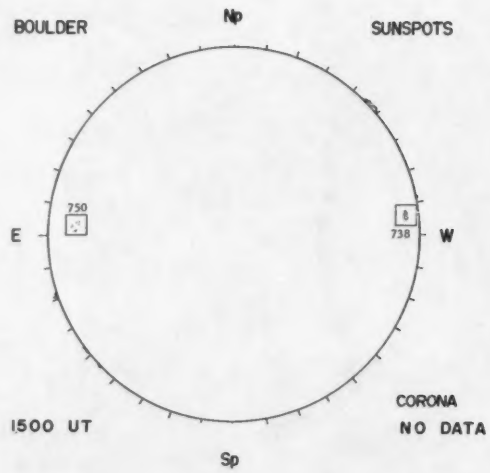
15.96-17.42 UT

05
RAMEY AFB



1216 UT

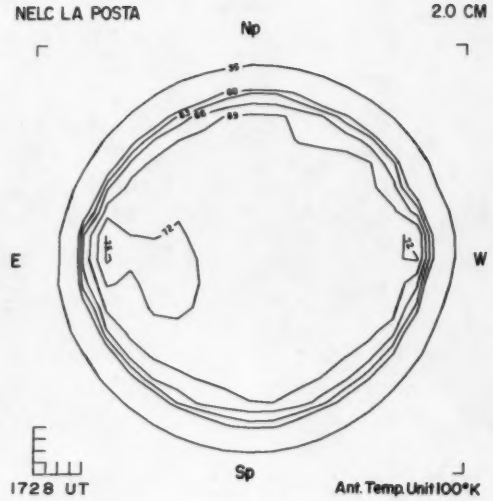
BOULDER



1500 UT

CORONA
NO DATA

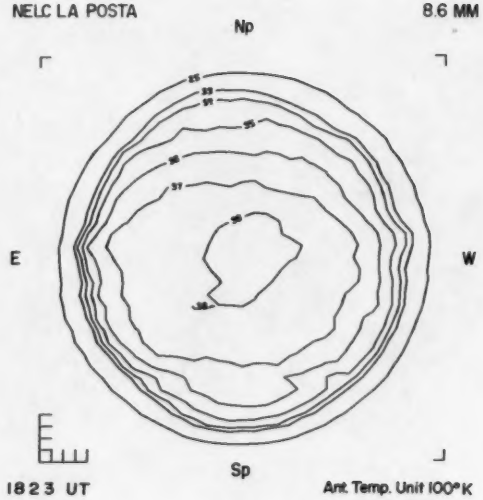
NELC LA POSTA 2.0 CM



1728 UT

Ant. Temp. Unit 100°K

NELC LA POSTA 8.6 MM



1823 UT

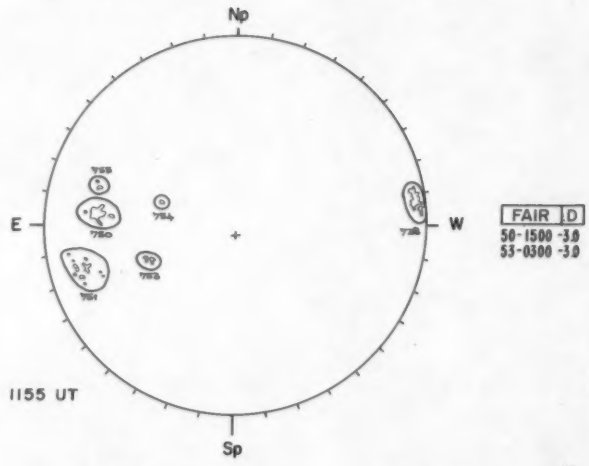
Ant. Temp. Unit 100°K

JULY 6, 1975 (P=-0.70 B_o=3.39 L_o=351.26)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

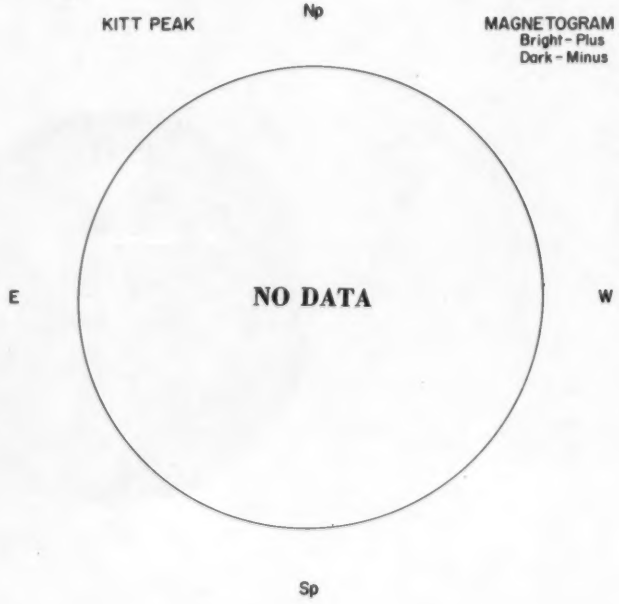
X-RAY
OSO-5

McMATH-HULBERT



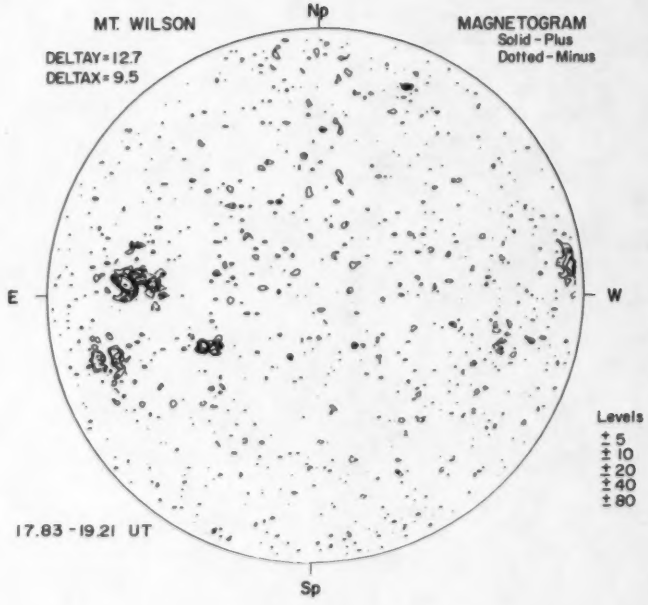
CALCIUM REPORT

KITT PEAK



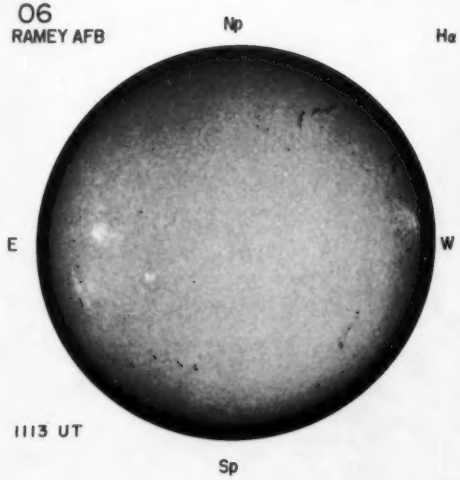
MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON



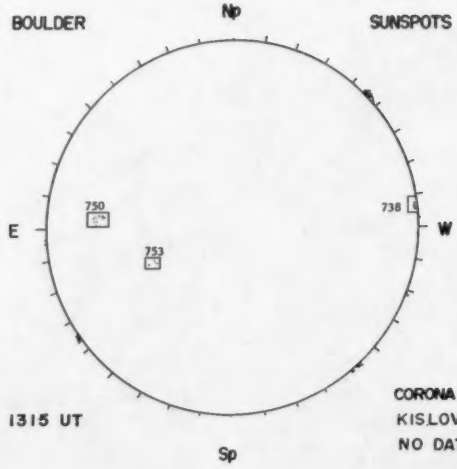
MAGNETOGRAM
Solid - Plus
Dotted - Minus

06
RAMEY AFB



1113 UT

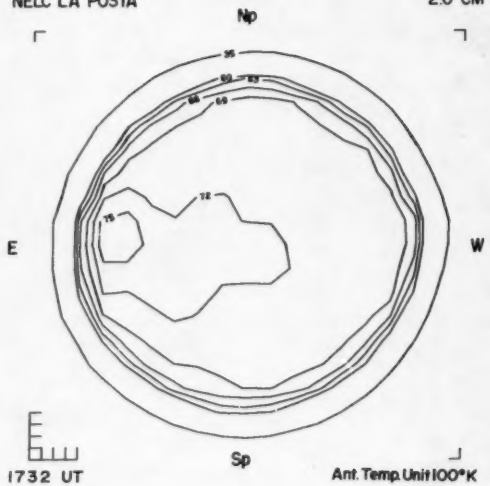
BOULDER



1315 UT

CORONA
KISLOVODSK
NO DATA 15° - 25°

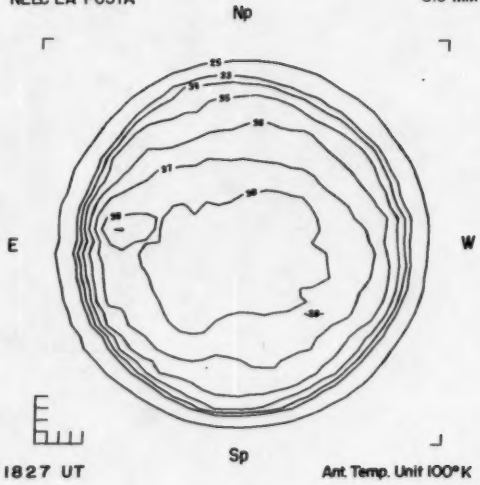
NELC LA POSTA



1732 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1827 UT

Ant. Temp. Unit 100°K

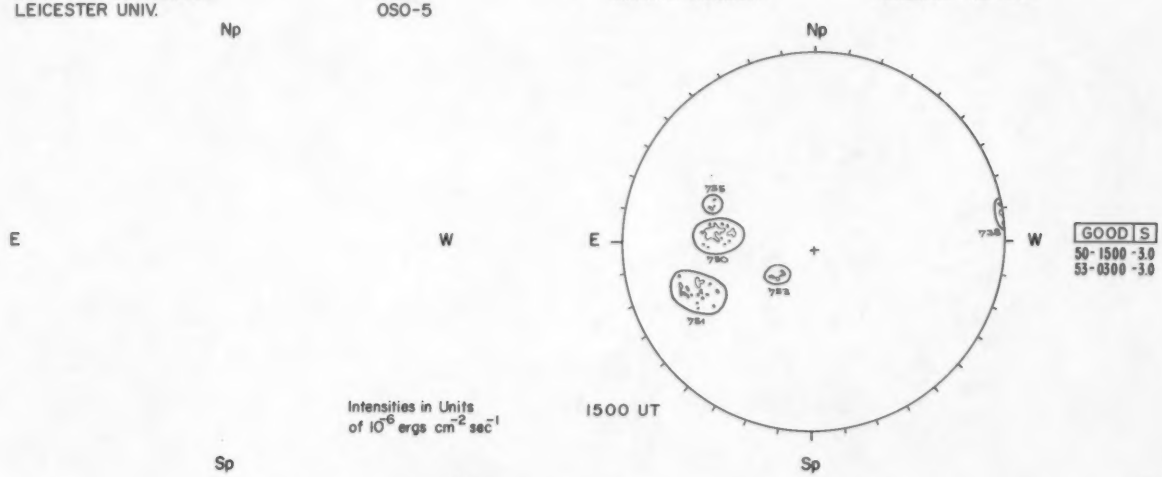
JULY 7, 1975 (P=-0.25 B_o=3.49 L_o=338.02)

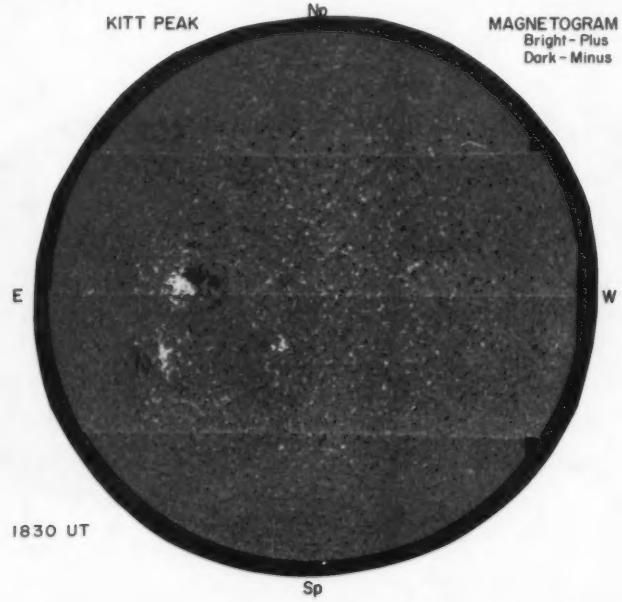
UNIV. COLLEGE LONDON
LEICESTER UNIV.

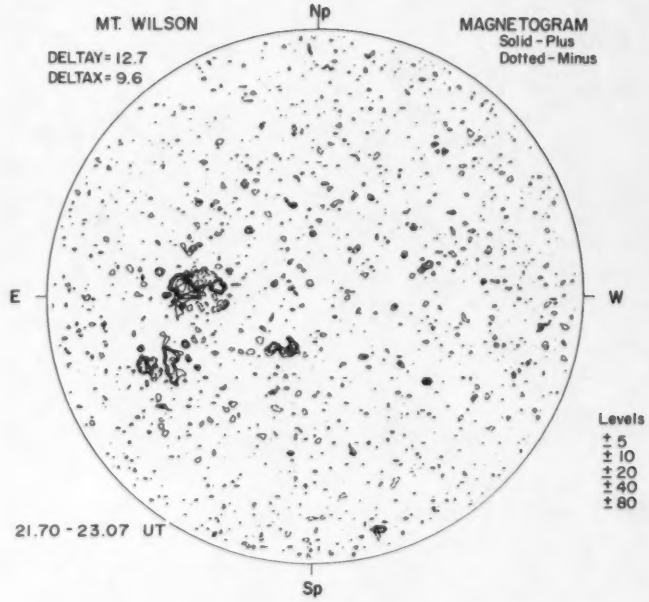
X-RAY
OSO-5

McMATH-HULBERT

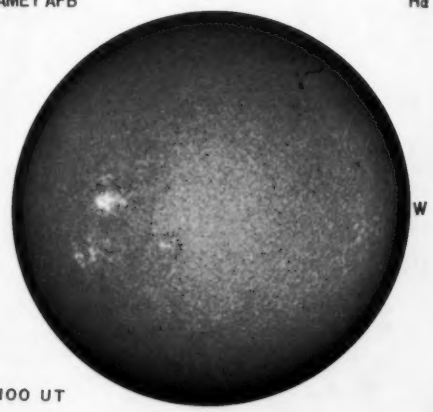
CALCIUM REPORT





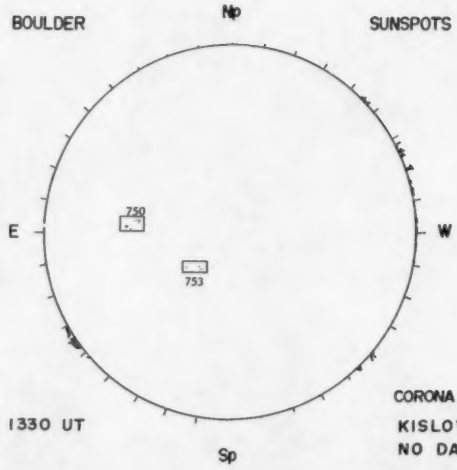


07
RAMEY AFB



1100 UT

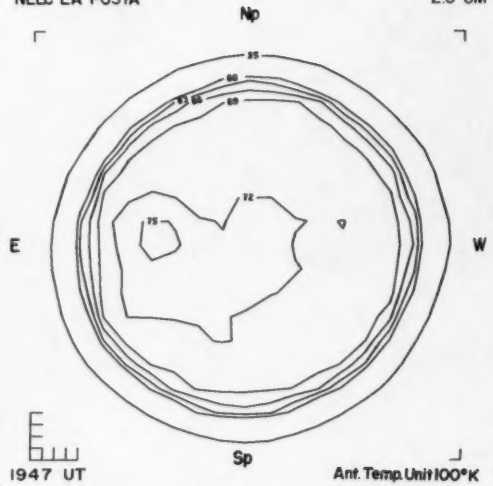
BOULDER



1330 UT

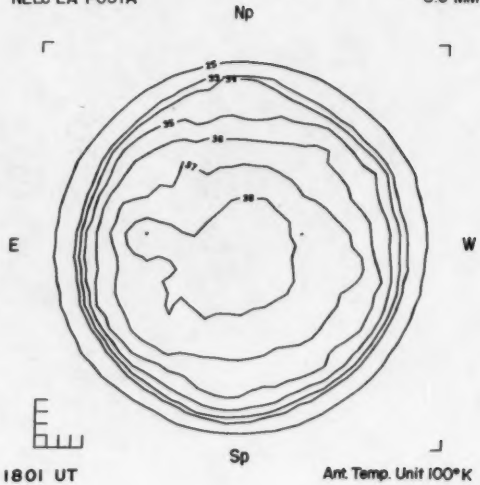
CORONA
KISLOVODSK
NO DATA 145° - 150°
160° - 165°
175°

NELC LA POSTA 2.0 CM



1947 UT
Ant. Temp. Unit 100°K

NELC LA POSTA 8.6 MM



1801 UT
Ant. Temp. Unit 100°K

47
Jul 75

JULY 8, 1975 (P= 0.20 B_o=3.60 L_o=324.79)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

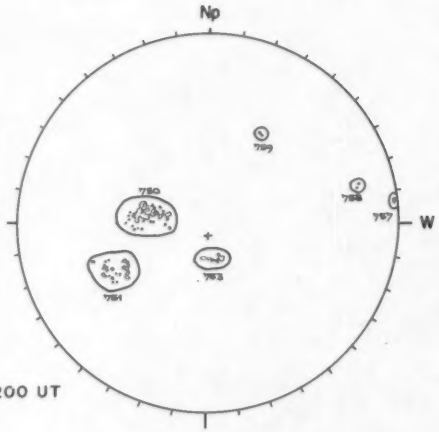
E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

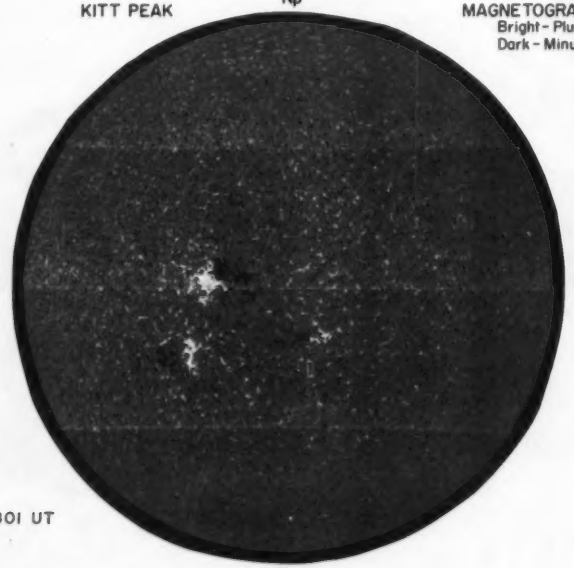


FAIR | S
50- 1300 - 3.0

1200 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus



1801 UT

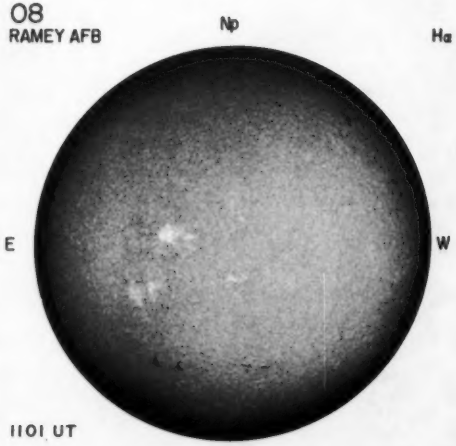
MT. WILSON

DELTAY=
DELTAX=

MAGNETOGRAM
Solid - Plus
Dotted - Minus

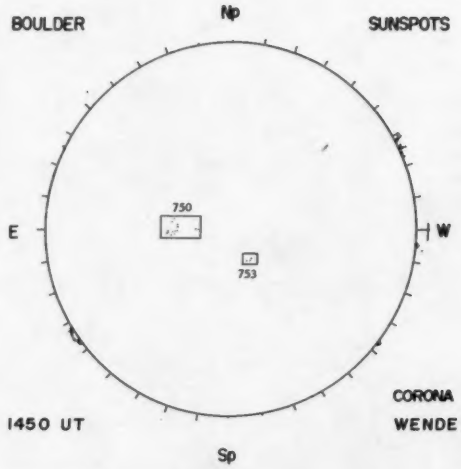
Levels
±5
±10
±20
±40
±80

08
RAMEY AFB



1101 UT

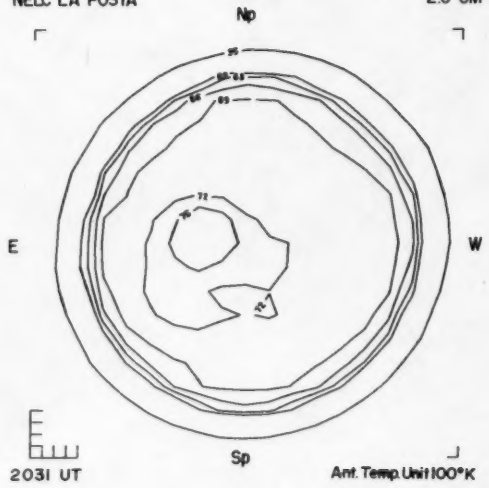
BOULDER



1450 UT

CORONA
WENDELSTEIN

NELC LA POSTA



2031 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Ant. Temp. Unit 100°K

JULY 9, 1975 (P = 0.66 B_o = 3.70 L_o = 311.55)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

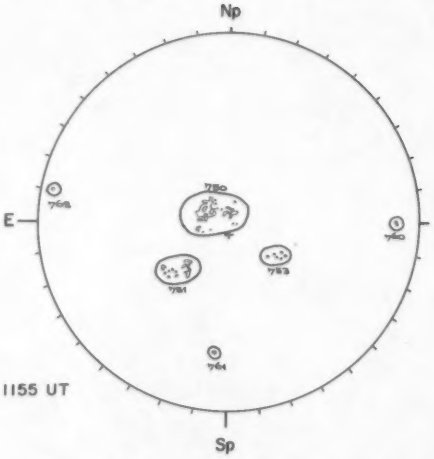
E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCULUM REPORT

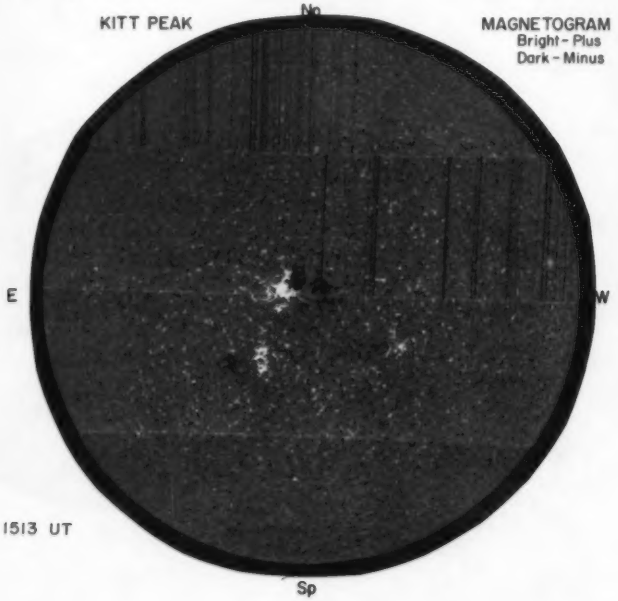


GOOD D
50-1300 -3.0

1155 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

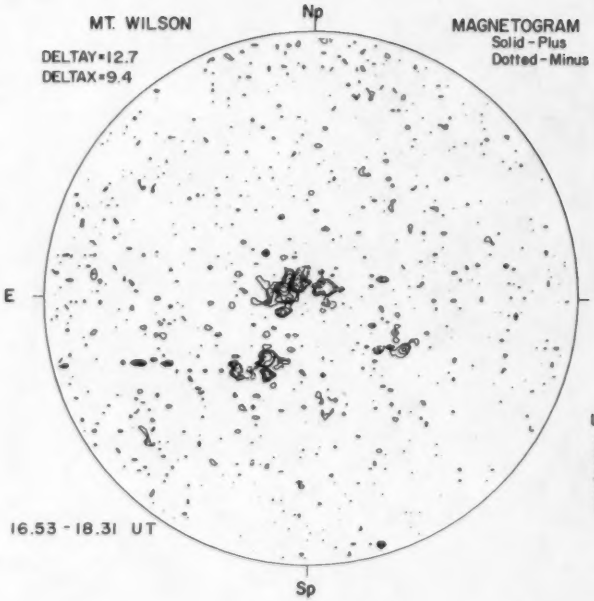


1513 UT

MT. WILSON

DELTAY=12.7
DELTAX=9.4

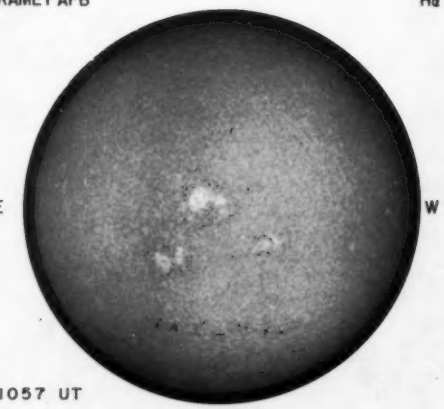
MAGNETOGRAM
Solid - Plus
Dotted - Minus



Levels
± 5
± 10
± 20
± 40
± 80

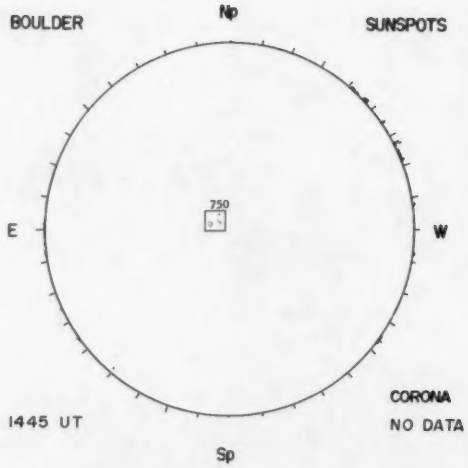
16.53 - 18.31 UT

09
RAMEY AFB



1057 UT

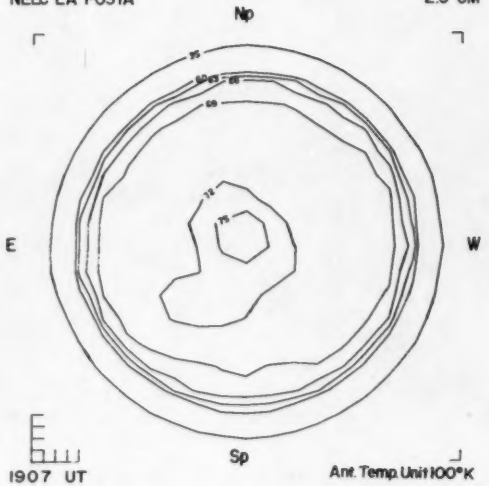
BOULDER



1445 UT

CORONA
NO DATA

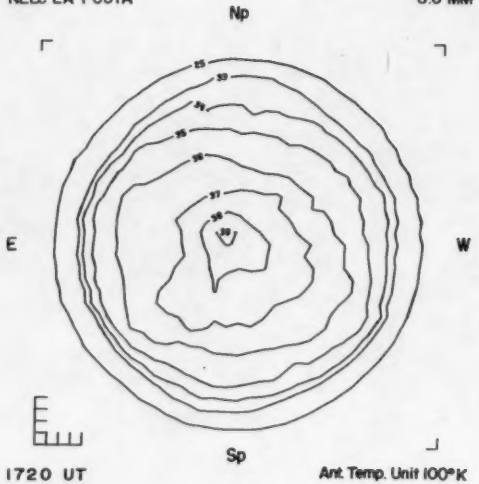
NELC LA POSTA 2.0 CM



1907 UT

Ant. Temp. Unit 100°K

NELC LA POSTA 8.6 MM



1720 UT

Ant. Temp. Unit 100°K

JULY 10, 1975 (P= 1.11 B_o=3.80 L_o=298.32)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

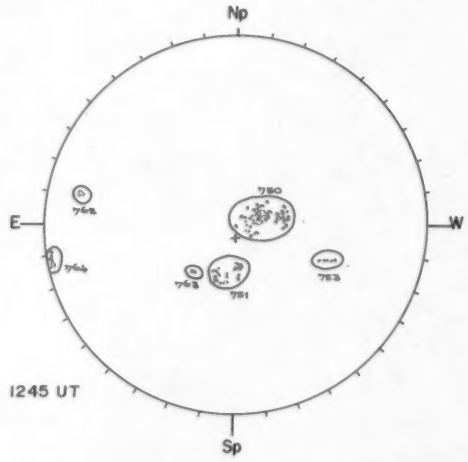
Np

E W

Sp

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

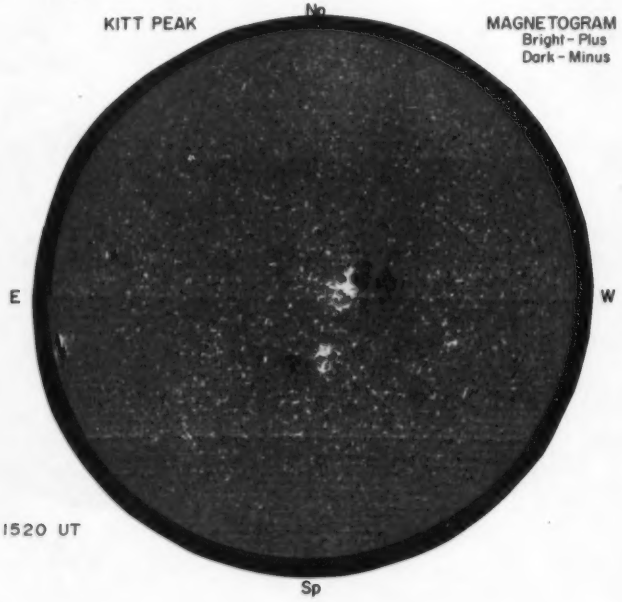
McMATH-HULBERT CALCIUM REPORT



GOOD | S
50- 1000 -3.0

1245 UT

KITT PEAK

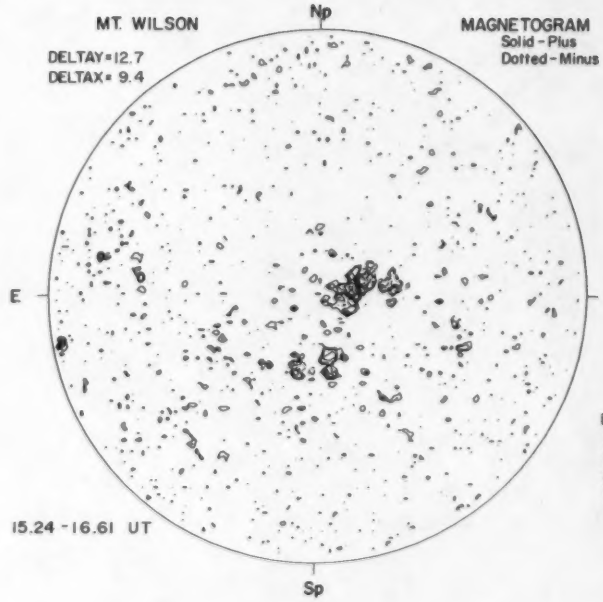


MAGNETOGRAM
Bright - Plus
Dark - Minus

1520 UT

MT. WILSON

DELTAY=12.7
DELTAX= 9.4



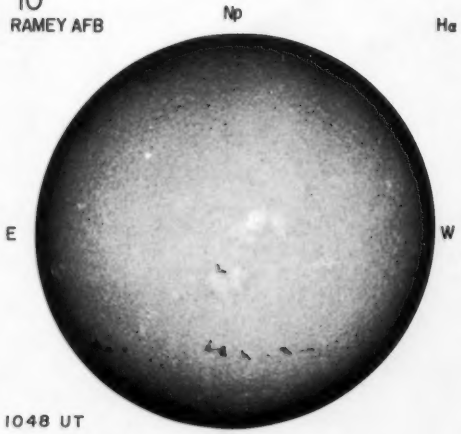
MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

15.24 - 16.61 UT

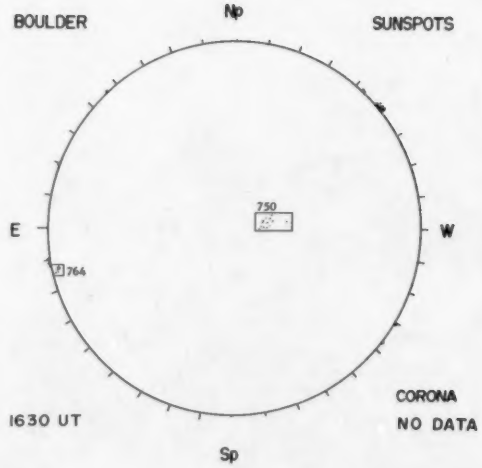
10

RAMEY AFB



1048 UT

BOULDER



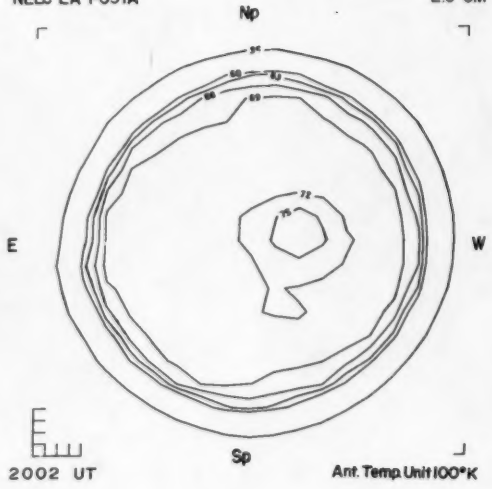
1630 UT

CORONA

NO DATA

NELC LA POSTA

2.0 CM

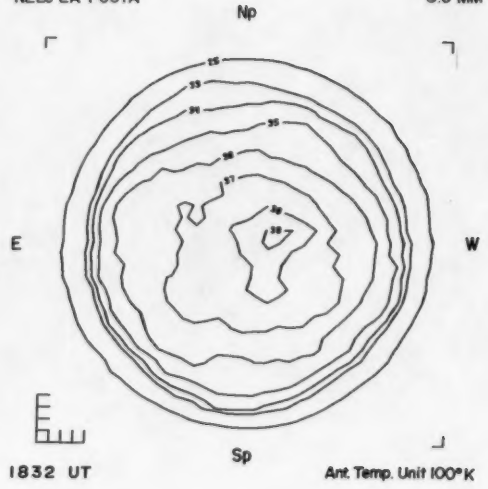


2002 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM



1832 UT

Ant. Temp. Unit 100°K

53

Jul 75

JULY 11, 1975 (P= 1.56 B_o=3.91 L_o=285.09)

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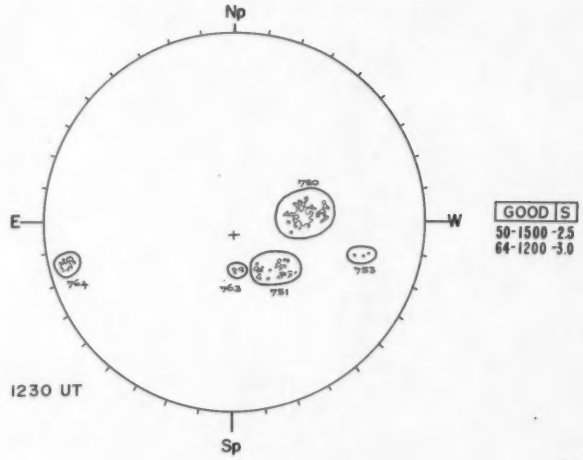
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

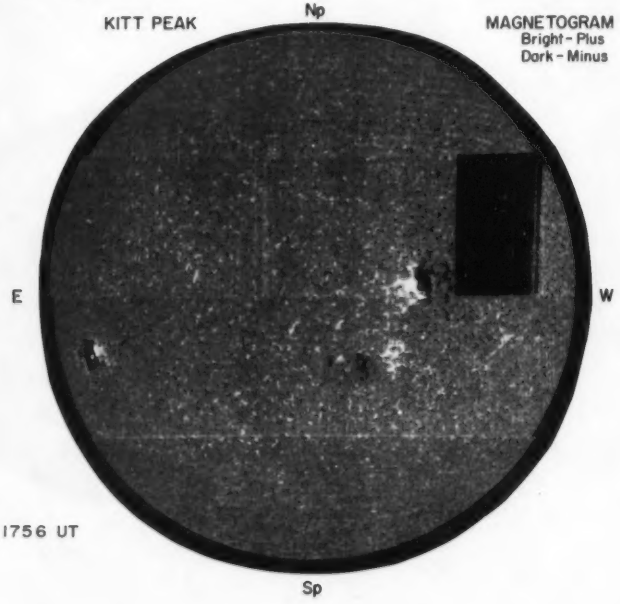
Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}



1230 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

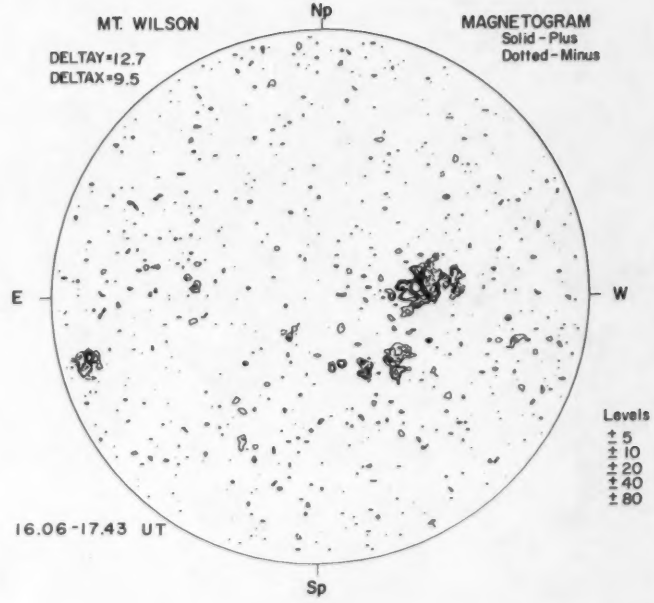


1756 UT

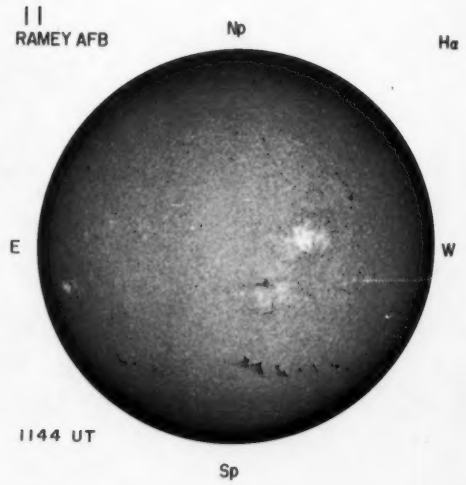
MT. WILSON

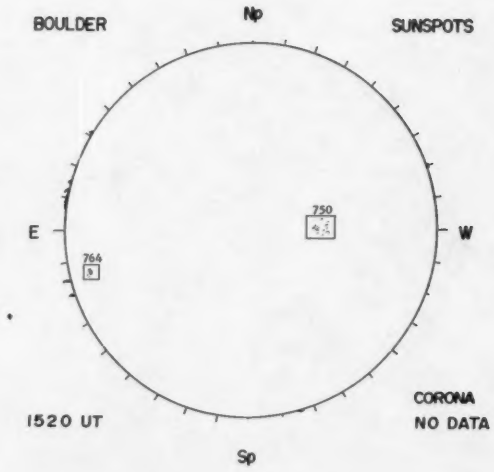
DELTAY=12.7
DELTAX=9.5

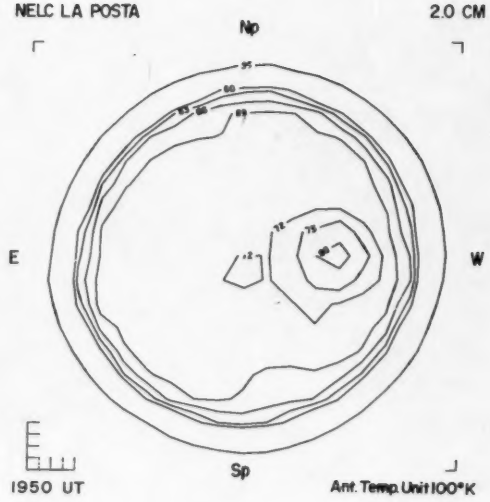
MAGNETOGRAM
Solid - Plus
Dotted - Minus

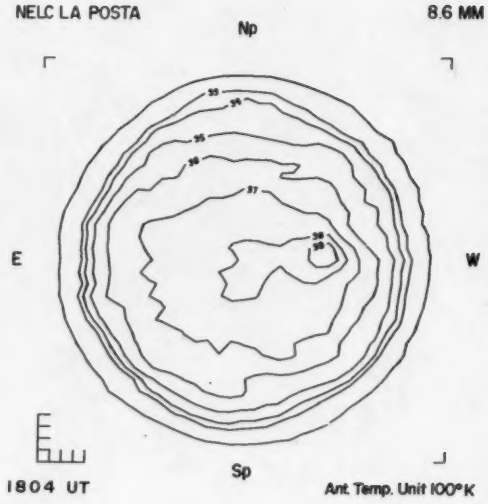


16.06-17.43 UT


RAMEY AFB
Np
Hα
E
W
1144 UT
Sp


BOULDER
Np
SUNSPOTS
750
764
E
W
CORONA
NO DATA
1520 UT
Sp


NELC LA POSTA
2.0 CM
Np
E
W
1950 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
E
W
1804 UT
Sp
Ant. Temp. Unit 100°K

JULY 12, 1975 (P= 2.01 B_o=4.01 L_o=271.85)

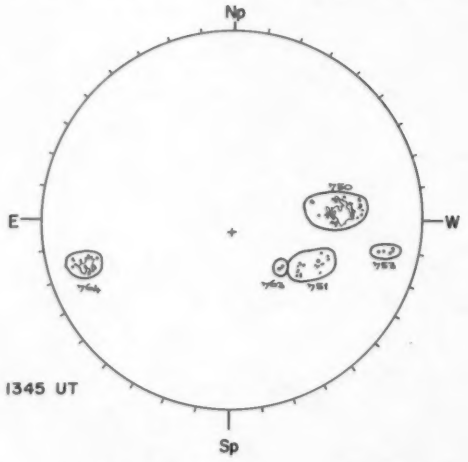
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E W
Sp

McMATH-HULBERT

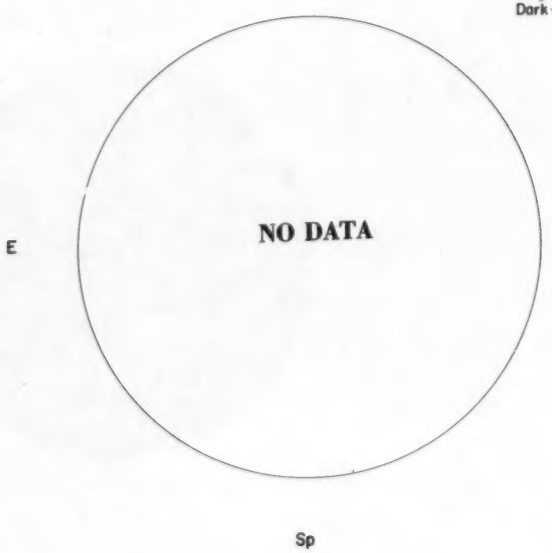
CALCIUM REPORT



1345 UT

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

KITT PEAK

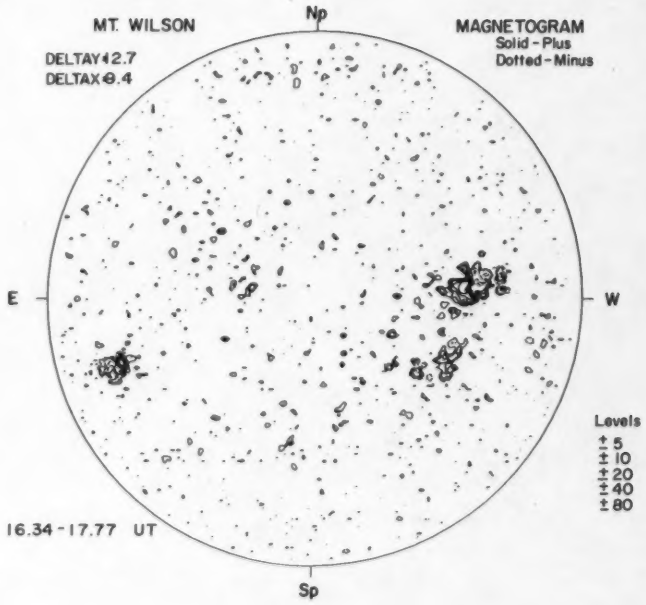


MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY 2.7
DELTAX 0.4

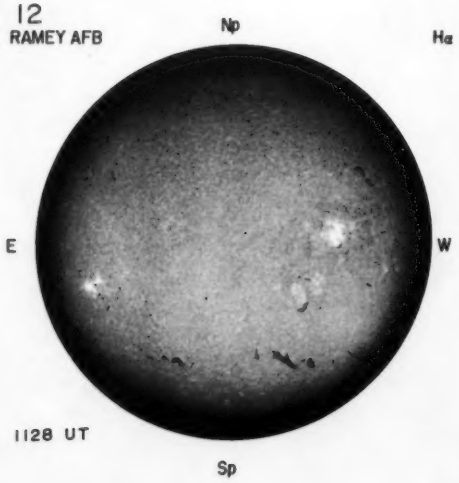
MAGNETOGRAM
Solid - Plus
Dotted - Minus



16.34 - 17.77 UT

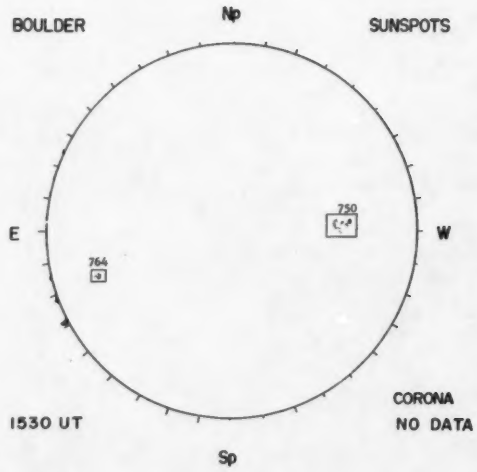
12

RAMEY AFB



1128 UT

BOULDER

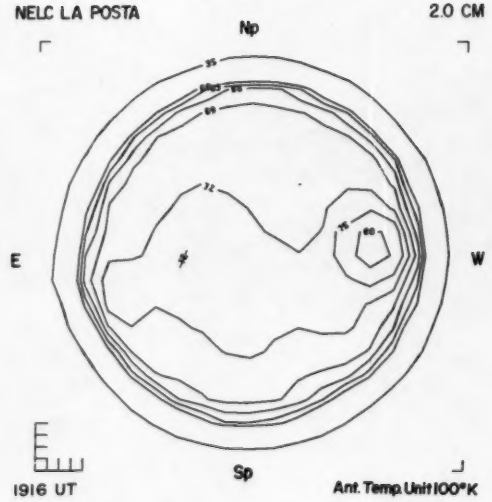


1530 UT

CORONA
NO DATA

NELC LA POSTA

2.0 CM

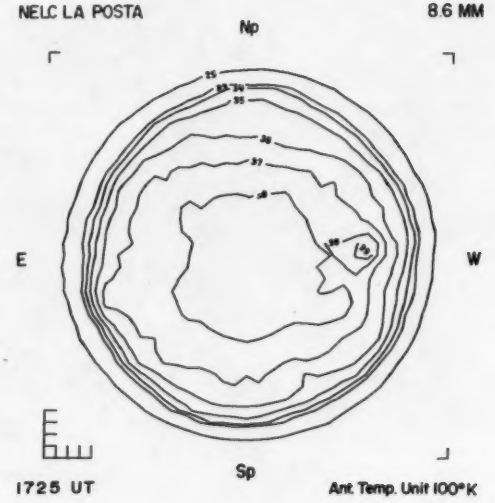


1916 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM



1725 UT

Ant. Temp. Unit 100°K

57
Jul 75

JULY 13, 1975 (P= 2.46 B_o=4.11 L_o=258.62)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

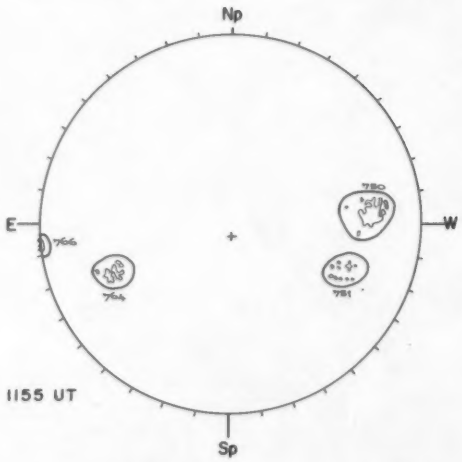
E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT



FAIR D
50-2000-3.0
66-0600-3.0
64-0900-2.5

1155 UT

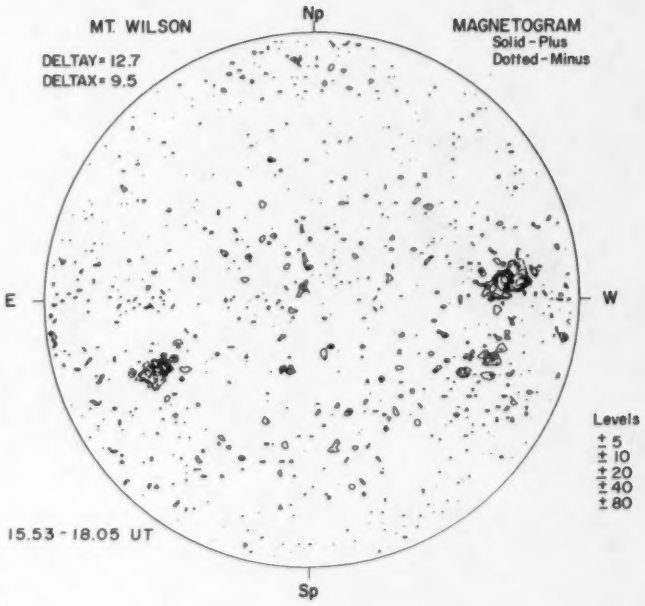
KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

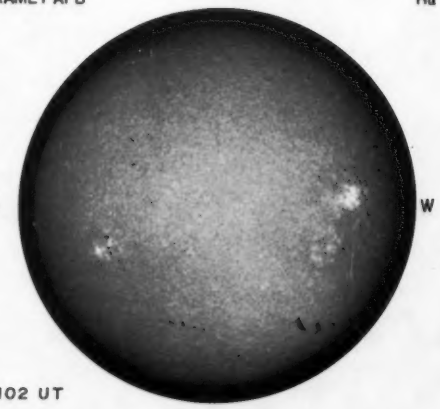
DELTAY= 12.7
DELTAX= 9.5

MAGNETOGRAM
Solid - Plus
Dotted - Minus



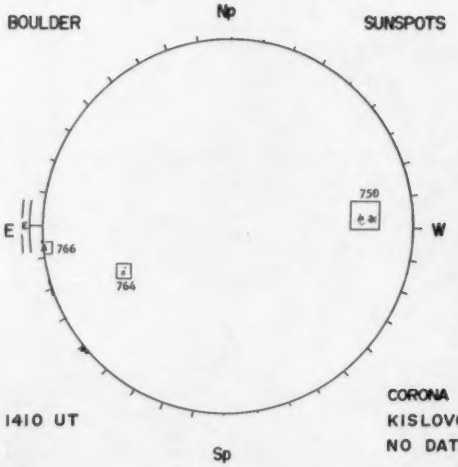
15.53 - 18.05 UT

13
RAMEY AFB



1102 UT

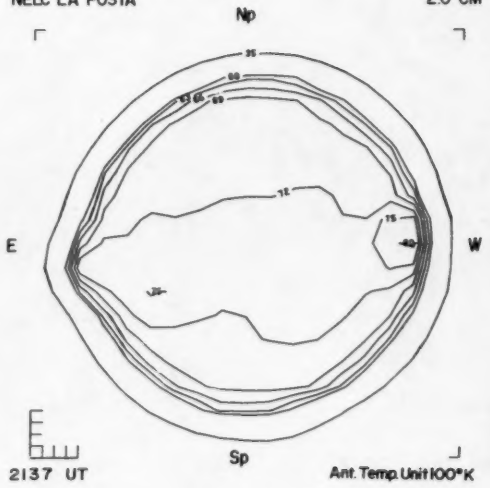
BOULDER



1410 UT

CORONA
KISLOVODSK
NO DATA 250°

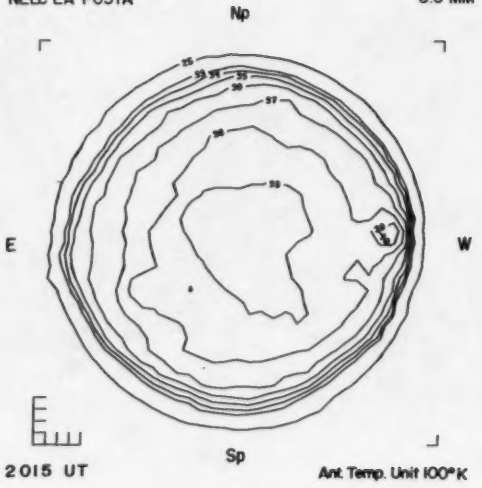
NELC LA POSTA



2137 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



2015 UT

Ant. Temp. Unit 100°K

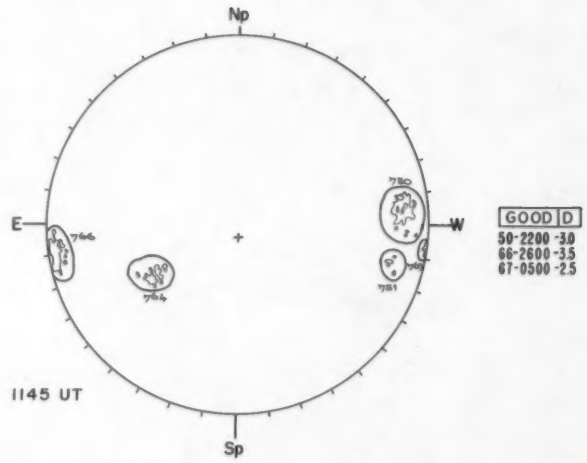
JULY 14, 1975 (P= 2.91 B_o=4.21 L_o=245.39)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

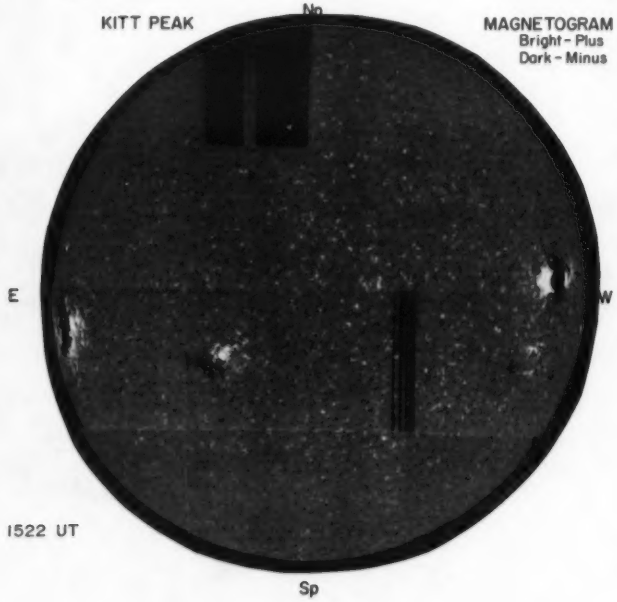
CALCIUM REPORT



GOOD	D
50-2200	-3.0
66-2600	-3.5
67-0500	-2.5

KITT PEAK

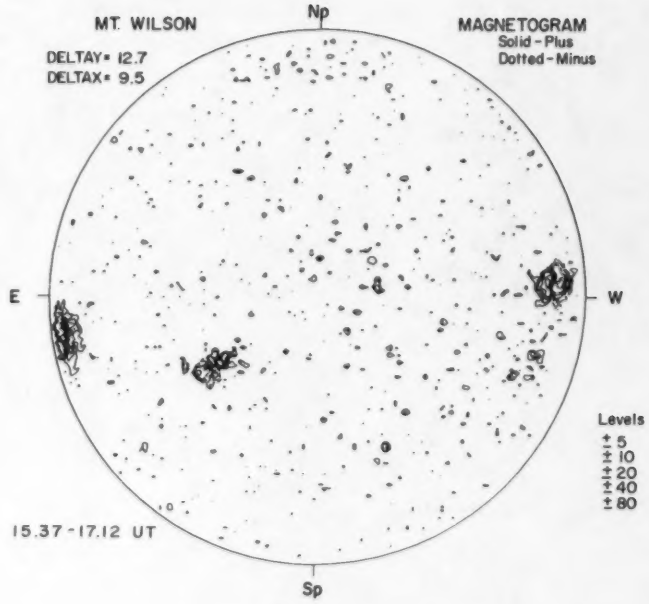
MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON

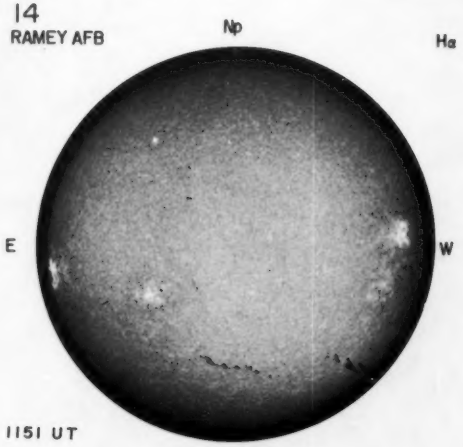
DELTAY= 12.7
DELTAX= 9.5

MAGNETOGRAM
Solid - Plus
Dotted - Minus



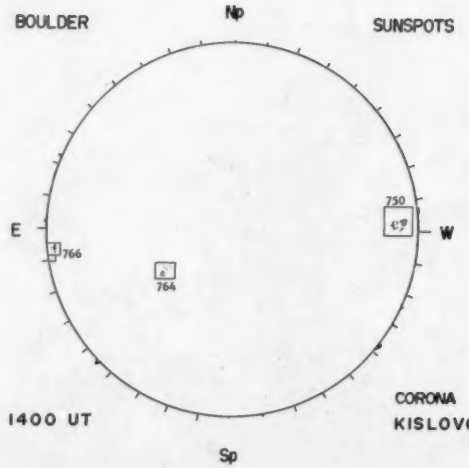
14

RAMEY AFB



1151 UT

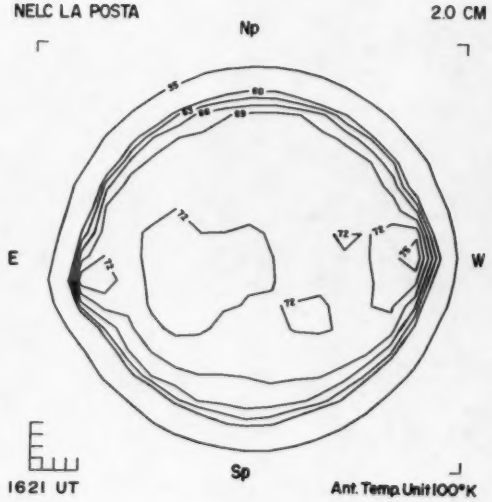
BOULDER



1400 UT

CORONA
KISLOVODSK

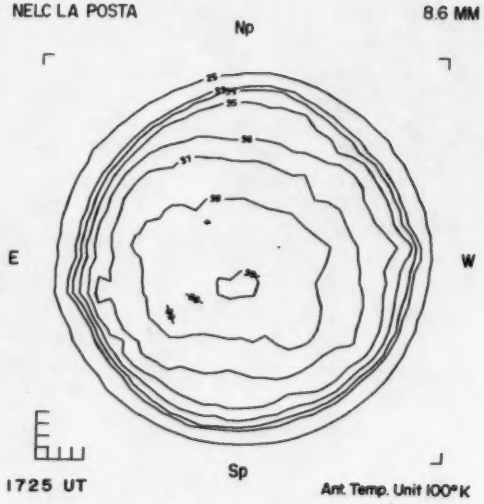
NELC LA POSTA



1621 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1725 UT

Ant. Temp. Unit 100°K

61
Jul 75

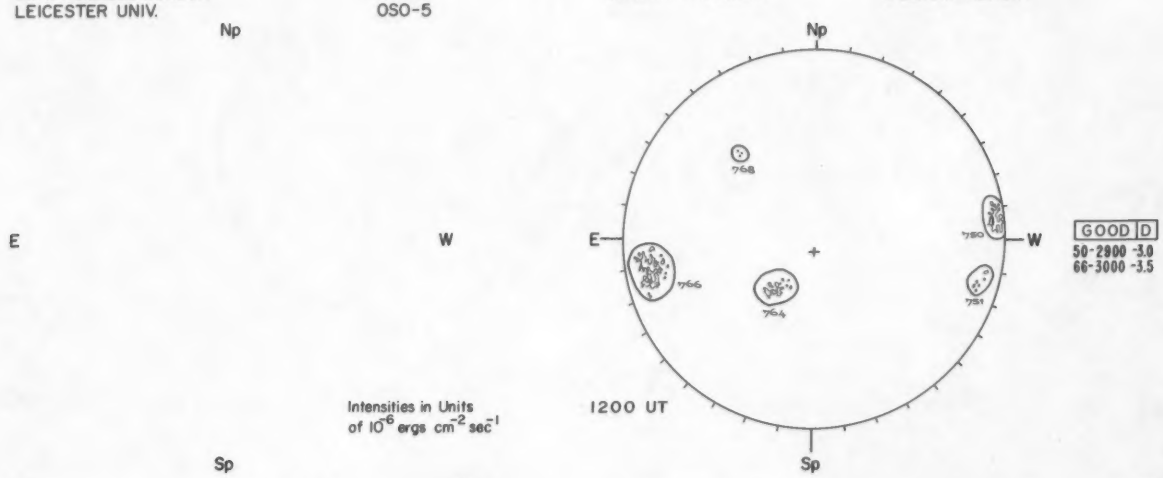
JULY 15, 1975 (P= 3.35 B_o=4.30 L_o=232.15)

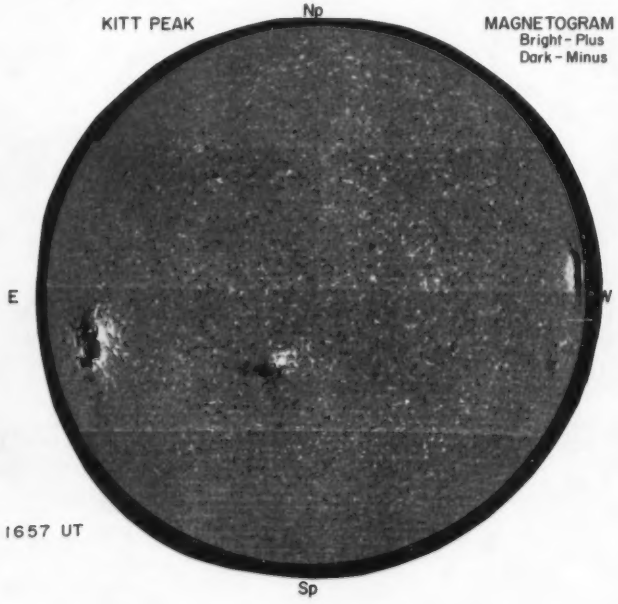
UNIV. COLLEGE LONDON
LEICESTER UNIV.

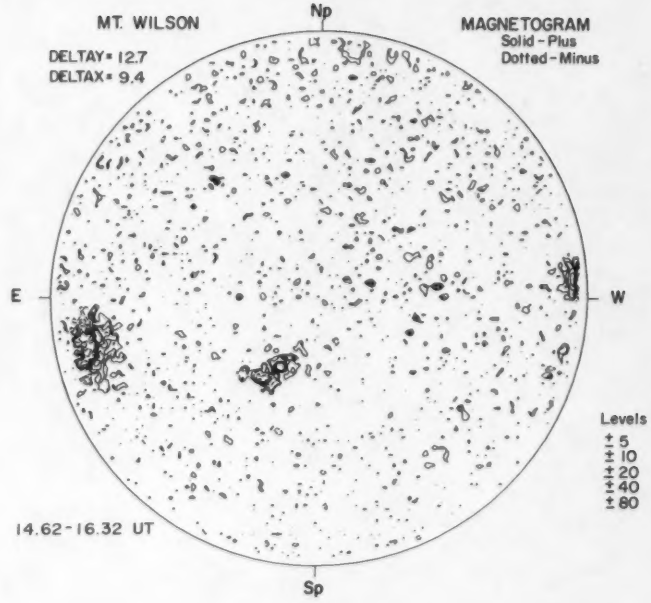
X-RAY
OSO-5

McMATH-HULBERT

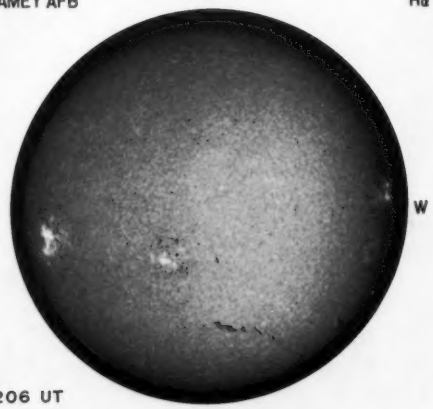
CALCIUM REPORT





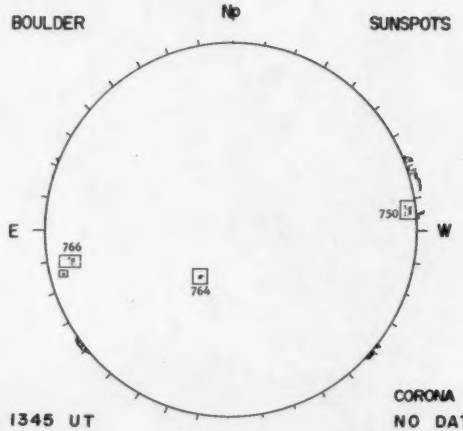


15
RAMEY AFB



1206 UT

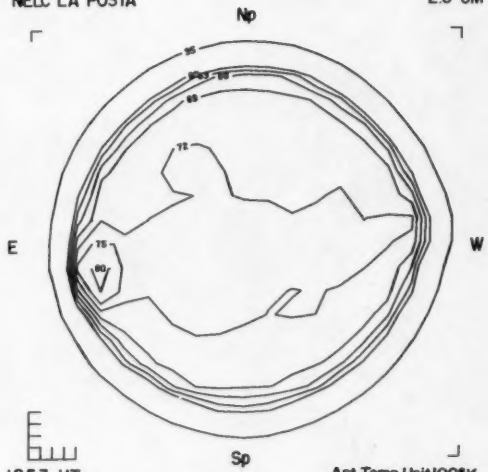
BOULDER



1345 UT

CORONA
NO DATA

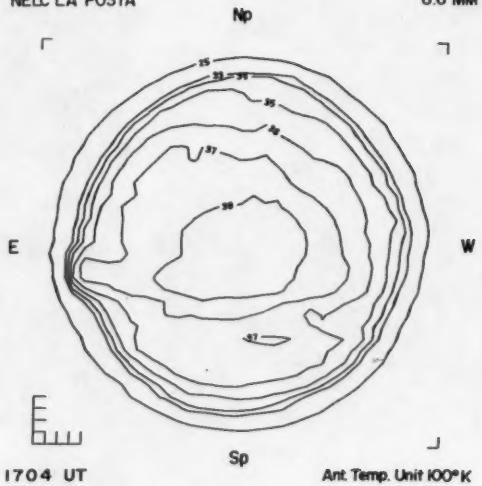
NELC LA POSTA



1853 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1704 UT

Ant. Temp. Unit 100°K

63
Jul 75

JULY 16, 1975 (P= 3.80 B_o =4.40 L_o =218.92)

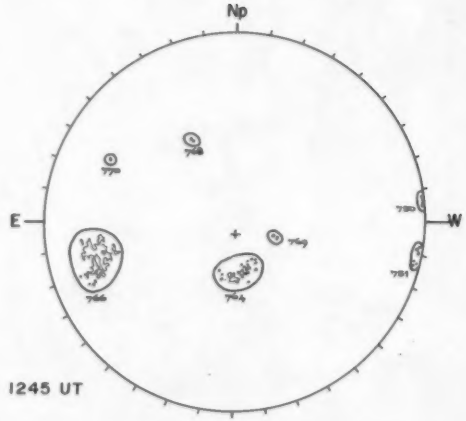
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



1245 UT

CALCIUM REPORT

FAIR M
66-3000 -3.5

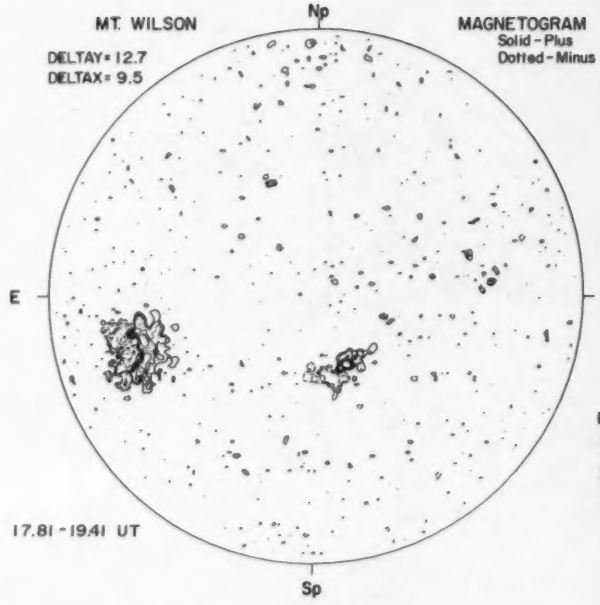
KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY= 12.7
DELTAX= 9.5

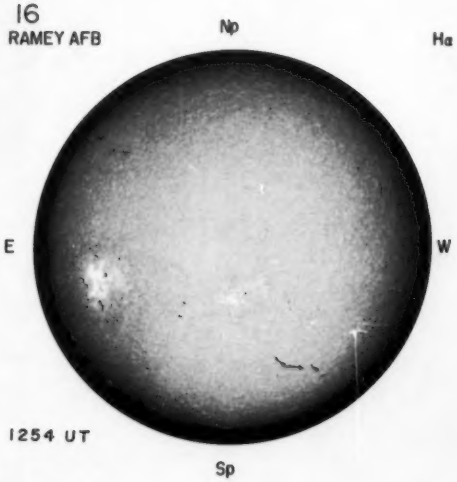
MAGNETOGRAM
Solid - Plus
Dotted - Minus



17.81 - 19.41 UT

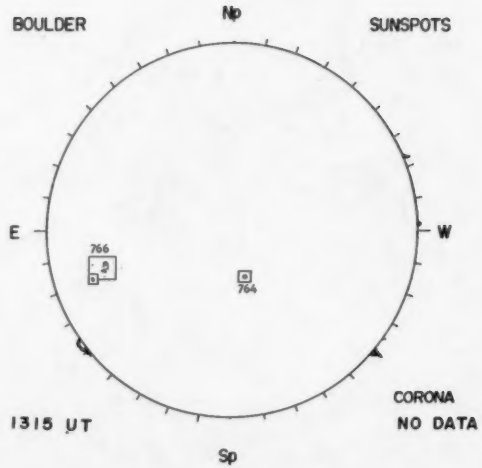
16

RAMEY AFB



1254 UT

BOULDER

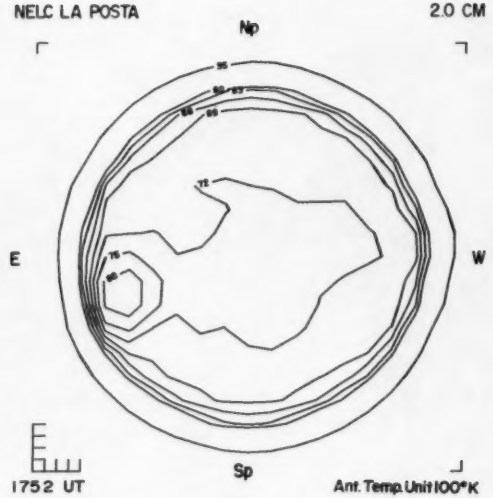


1315 UT

CORONA
NO DATA

NELC LA POSTA

2.0 CM

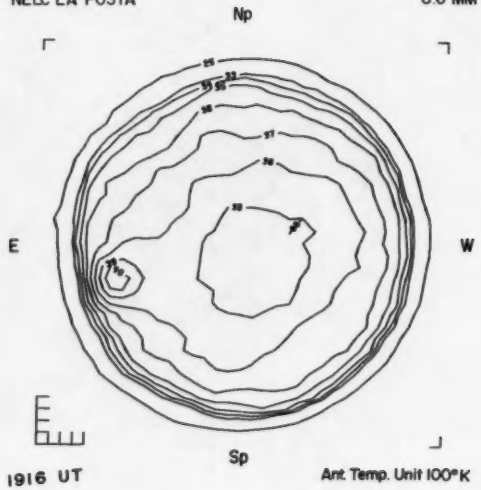


1752 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM



1916 UT

Ant. Temp. Unit 100°K

65
Jul 75

JULY 17, 1975 (P=4.24 B_o=4.50 L_o=205.69)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

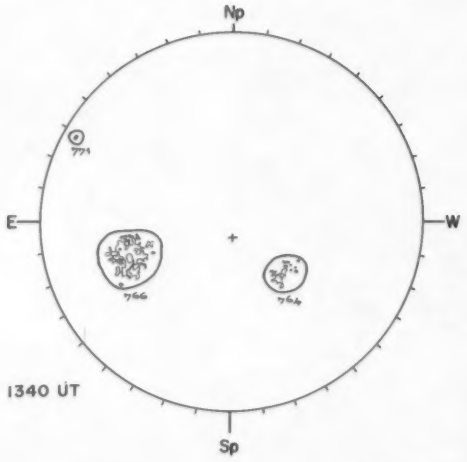
X-RAY
OSO-5

Np
E W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

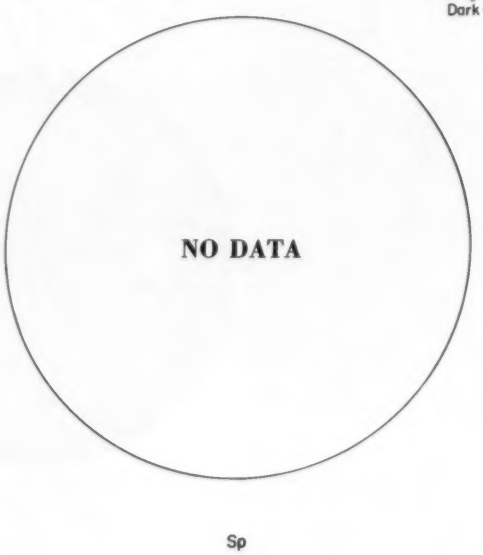


GOOD | M
66-3400 -3.0

1340 UT

KITT PEAK

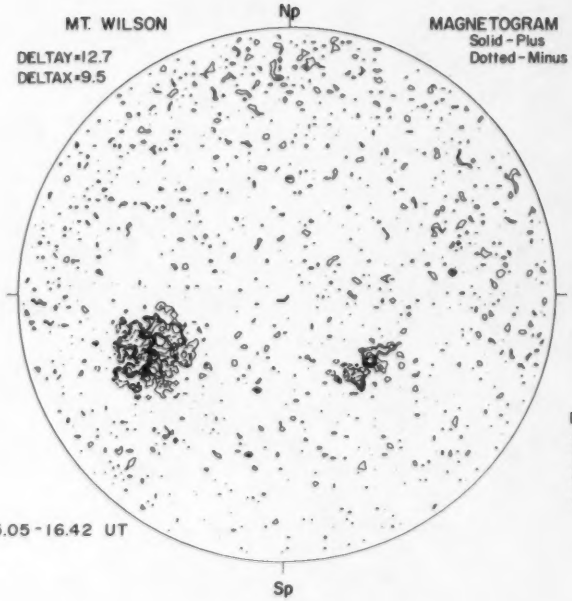
MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON

DELTAY=12.7
DELTAX=9.5

MAGNETOGRAM
Solid - Plus
Dotted - Minus

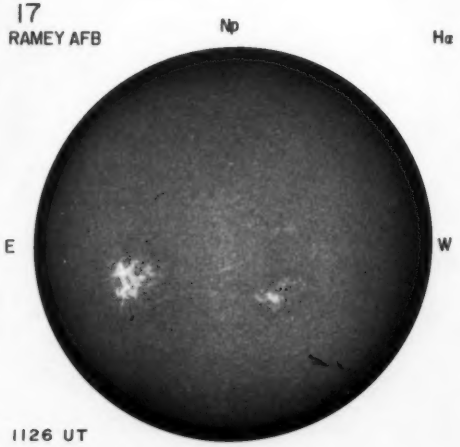


Levels
± 5
± 10
± 20
± 40
± 80

15.05 - 16.42 UT

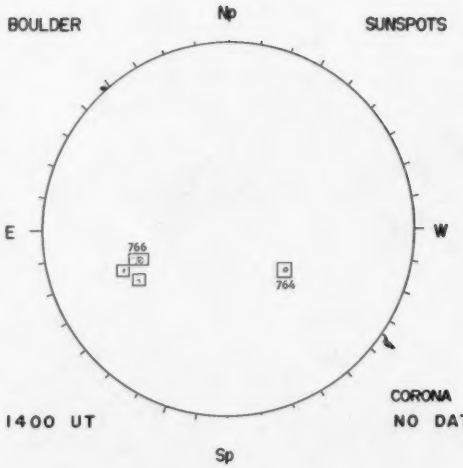
17

RAMEY AFB



1126 UT

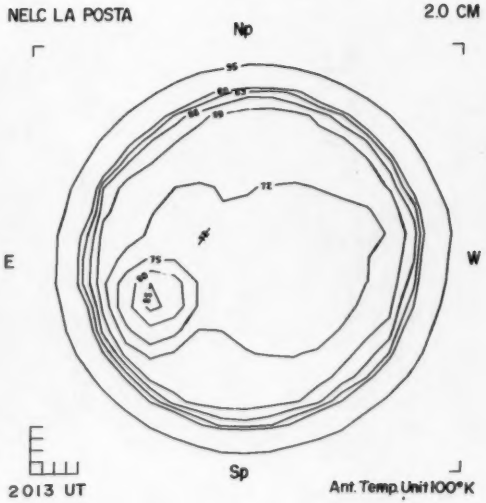
BOULDER



1400 UT

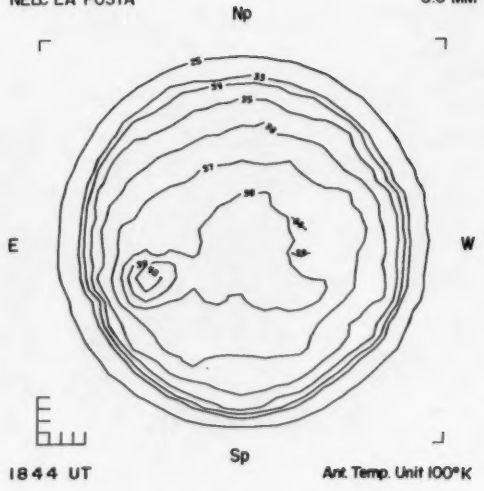
CORONA
NO DATA

NELC LA POSTA



2013 UT

NELC LA POSTA



1844 UT

67
Jul 75

JULY 18, 1975 (P=4.68 B_o=4.59 L_o=192.45)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

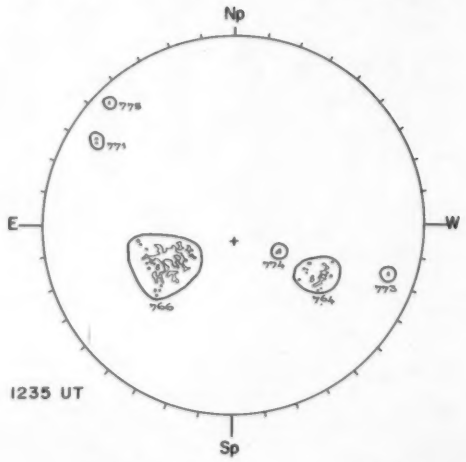
E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT



FAIR	D
66-3400	-3.5
74-0200	-2.5

1235 UT

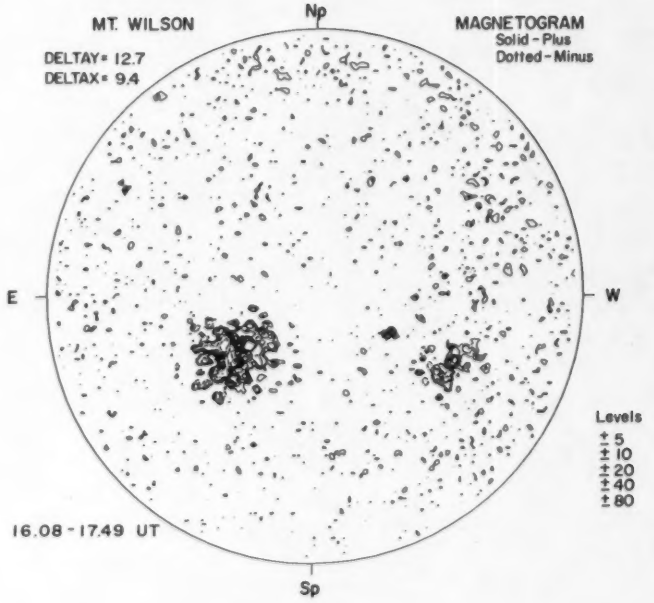
KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4

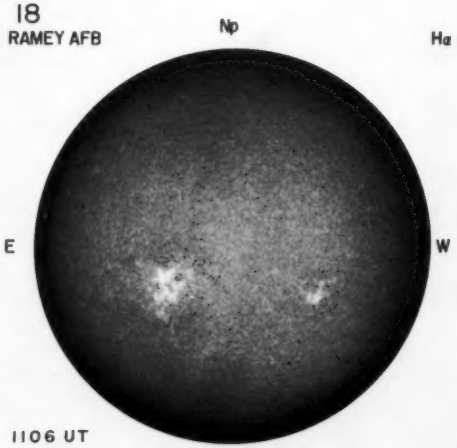
MAGNETOGRAM
Solid - Plus
Dotted - Minus



16.08 - 17.49 UT

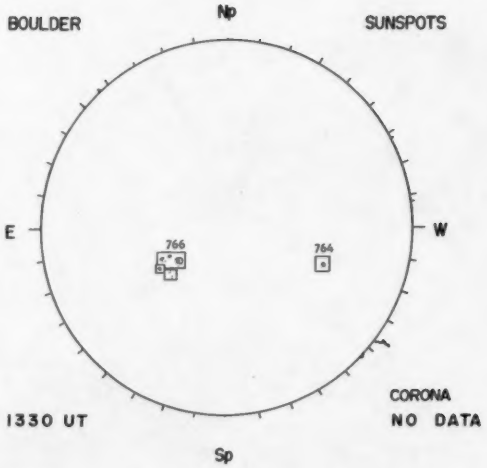
18

RAMEY AFB



1106 UT

BOULDER



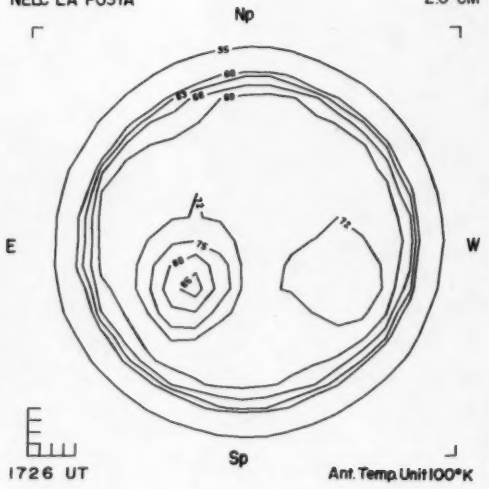
1330 UT

CORONA

NO DATA

NELC LA POSTA

2.0 CM

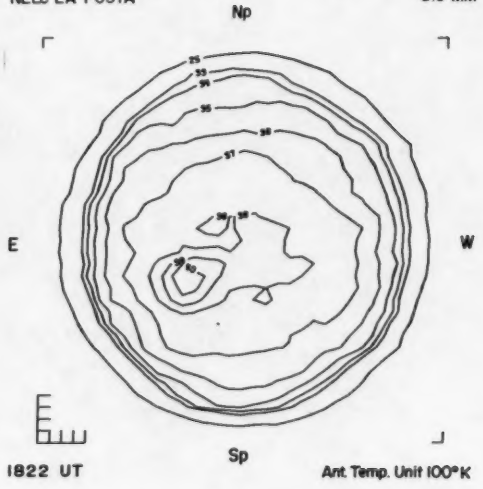


1726 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM



1822 UT

Ant. Temp. Unit 100°K

69

Jul 75

JULY 19, 1975 (P=5.12 B_o=4.68 L_o=179.22)

70
Jul 75

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

Np

E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

Np

E W

1430 UT

Sp

POOR M
66-3200-3.0

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

Np

E W

1718 UT

Sp

MT. WILSON

DELTAY = 12.7
DELTAX = 9.5

MAGNETOGRAM
Solid - Plus
Dotted - Minus

Np

E W

15.27-16.63 UT

Sp

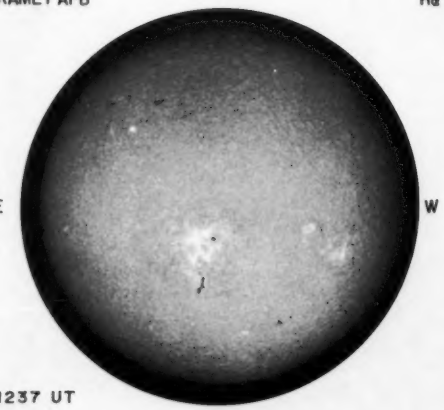
Levels
± 5
± 10
± 20
± 40
± 80

19

RAMEY AFB

Np

Hα



E

W

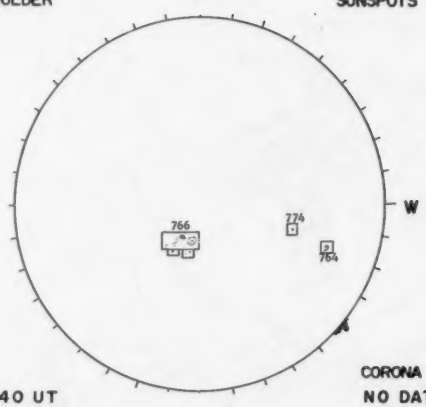
1237 UT

Sp

BOULDER

Np

SUNSPOTS



E

W

1340 UT

Sp

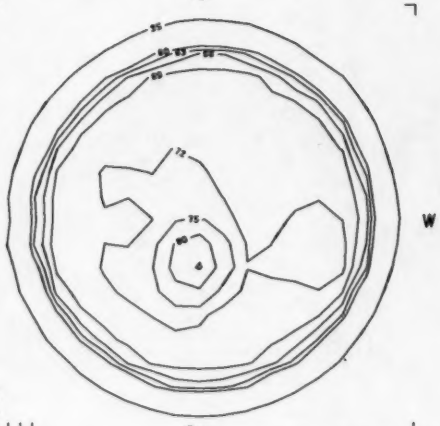
CORONA

NO DATA

NELC LA POSTA

2.0 CM

Np



E

W

1856 UT

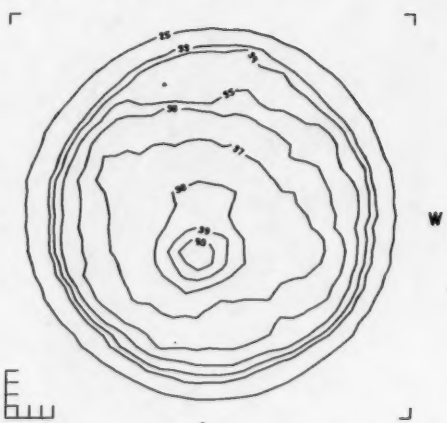
Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Np



E

W

1710 UT

Sp

Ant. Temp. Unit 100°K

71

Jul 75

JULY 20, 1975 (P=5.56 B_o=4.77 L_o=165.99)

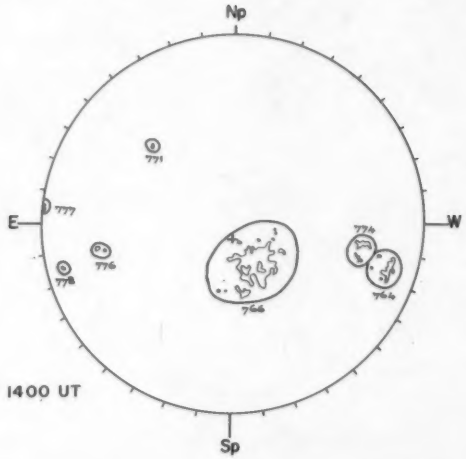
72
Jul 75

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

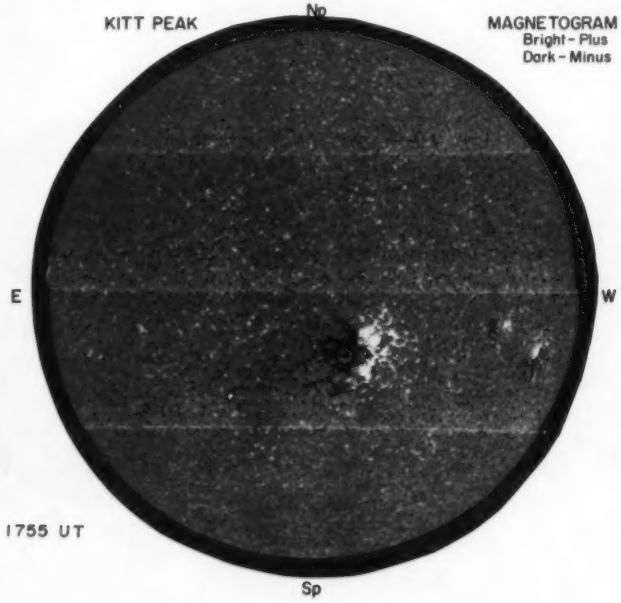


FAIR | D
66-3400-3.0

1400 UT

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

KITT PEAK

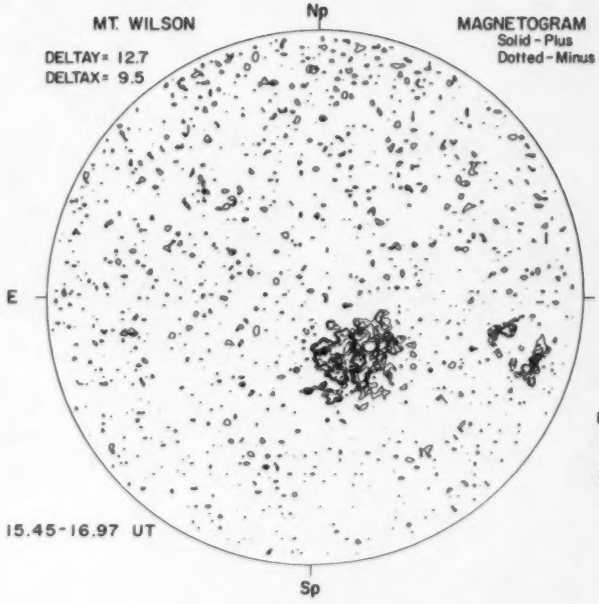


MAGNETOGRAM
Bright - Plus
Dark - Minus

1755 UT

MT. WILSON

DELTAY= 12.7
DELTAX= 9.5



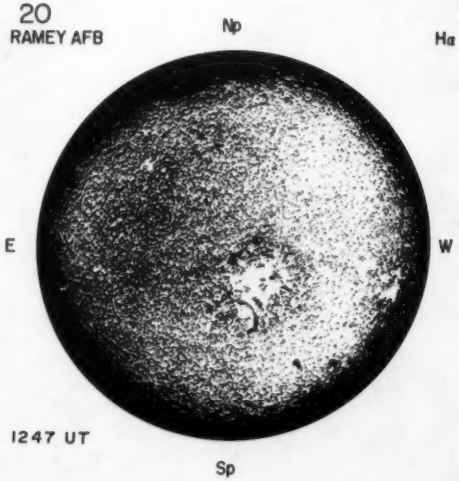
MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

15.45-16.97 UT

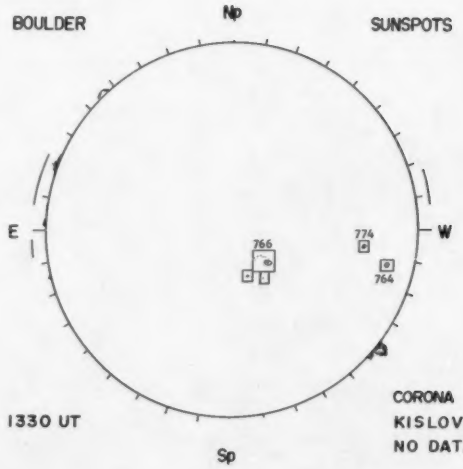
20

RAMEY AFB



1247 UT

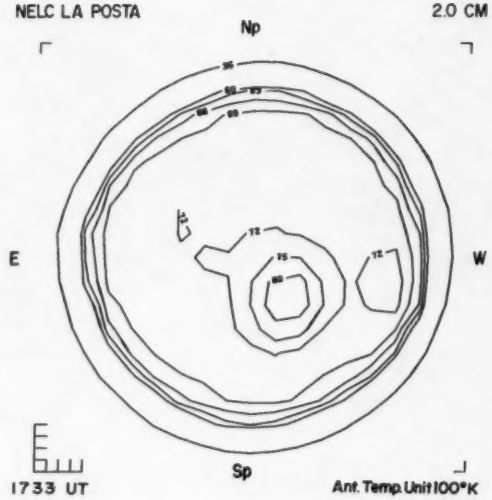
BOULDER



1330 UT

CORONA
KISLOVODSK
NO DATA 0°-25°
40°-50°

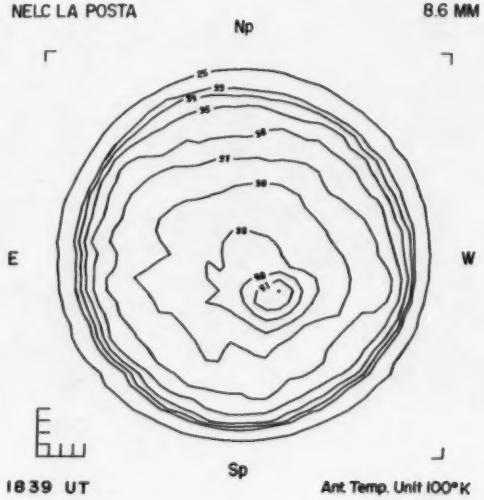
NELC LA POSTA



1733 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1839 UT

Ant. Temp. Unit 100°K

73
Jul 75

JULY 21, 1975 (P=5.99 B_o=4.86 L_o=152.76)

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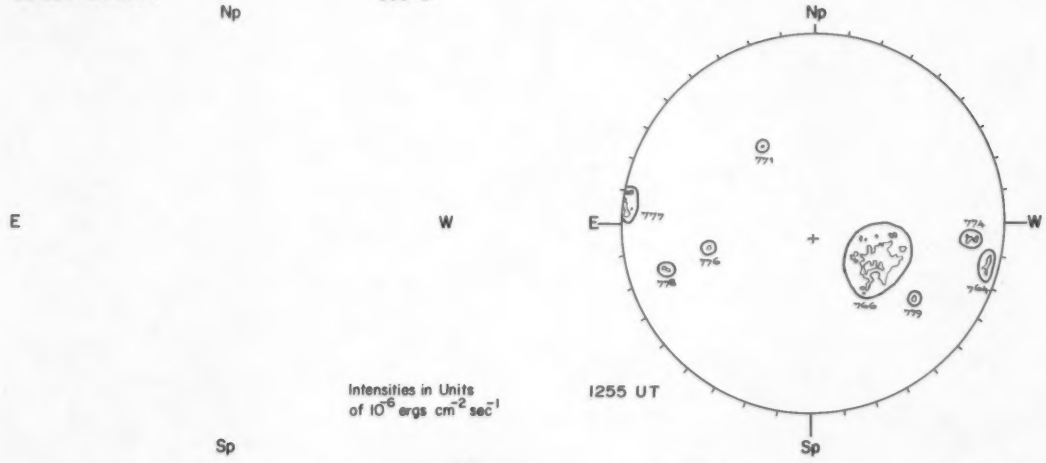
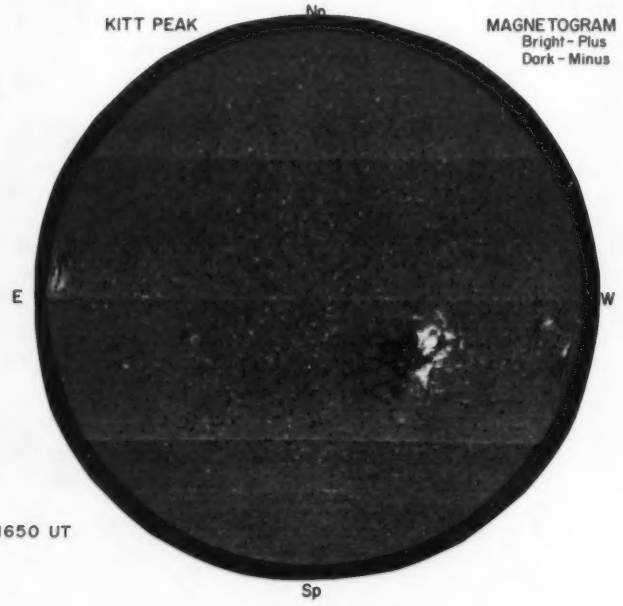
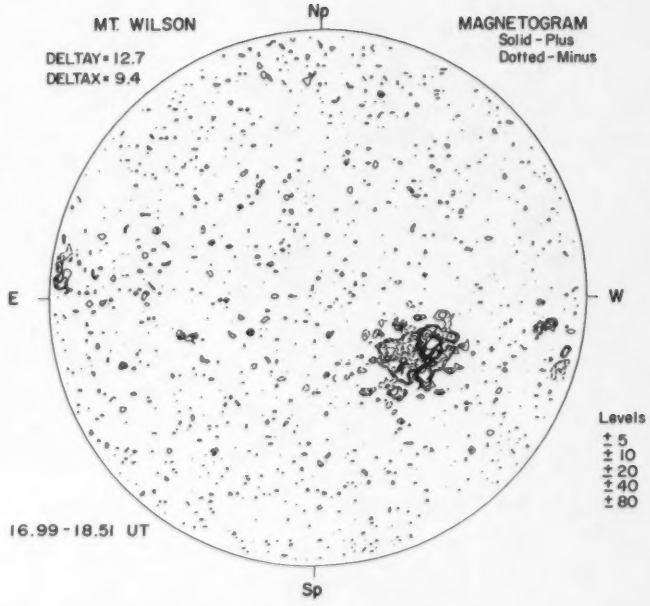
X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

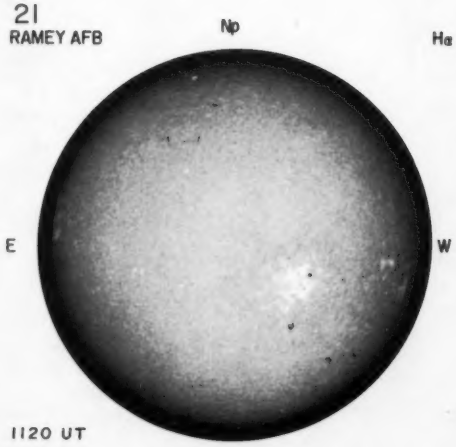






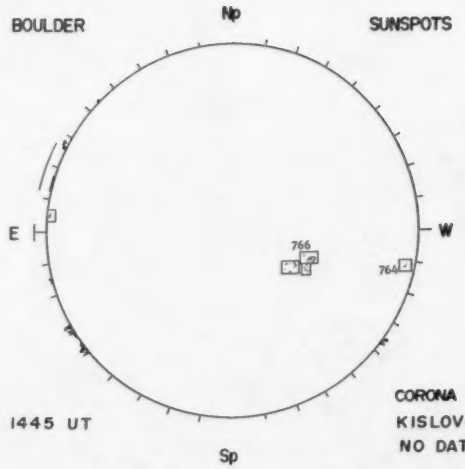
21

RAMEY AFB



1120 UT

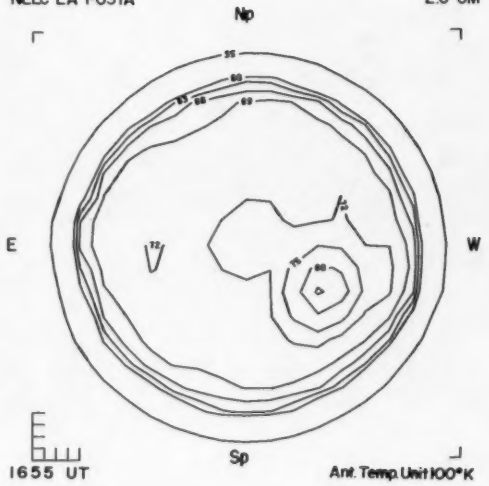
BOULDER



1445 UT

CORONA
KISLOVODSK
NO DATA 250°

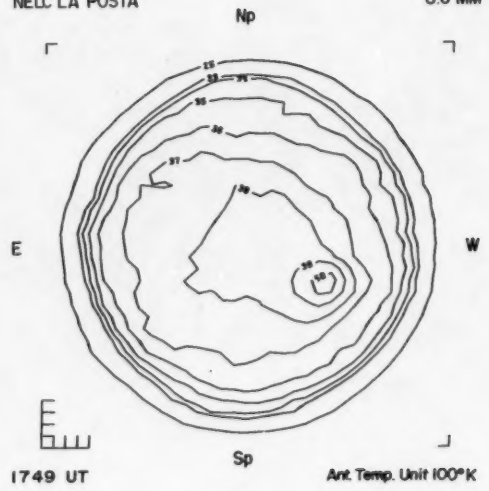
NELC LA POSTA



1655 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1749 UT

Ant. Temp. Unit 100°K

75
Jul 75

JULY 22, 1975 (P=6.42 B_o=4.95 L_o=139.53)

76
Jul 75

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

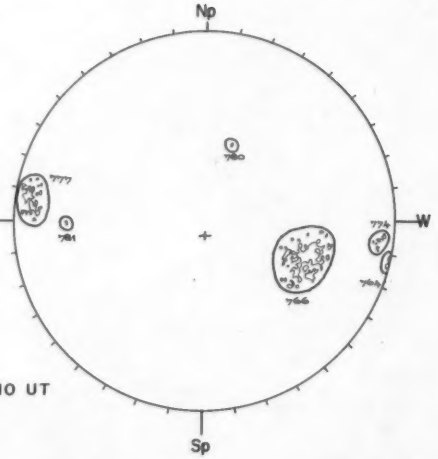
E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT



EXCEL D
66-3700 -3.0
77-2400 -2.5

1210 UT

KITT PEAK

Np

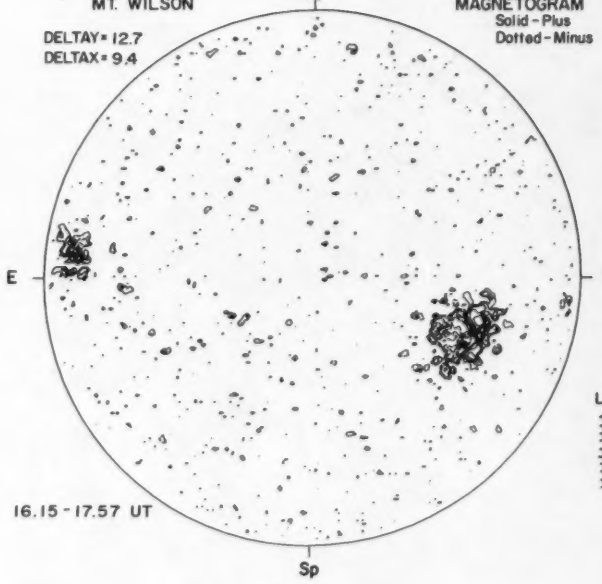
MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4

Np

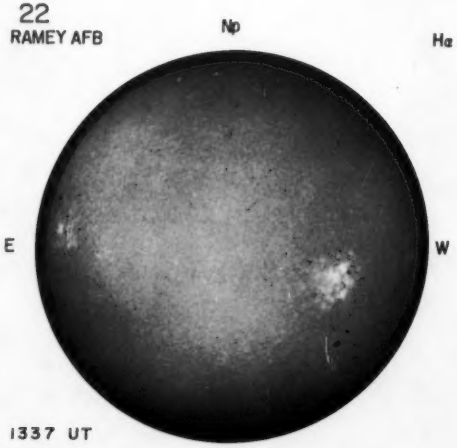
MAGNETOGRAM
Solid - Plus
Dotted - Minus



16.15 - 17.57 UT

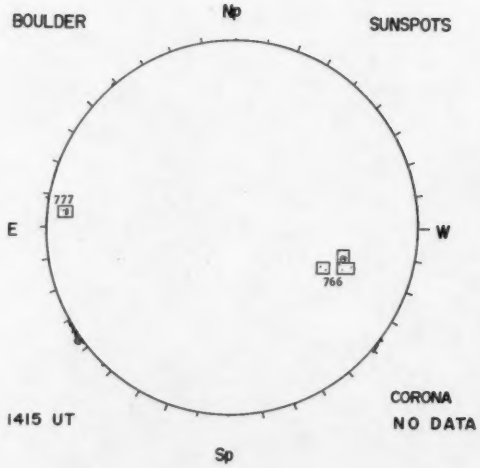
22

RAMEY AFB



1337 UT

BOULDER

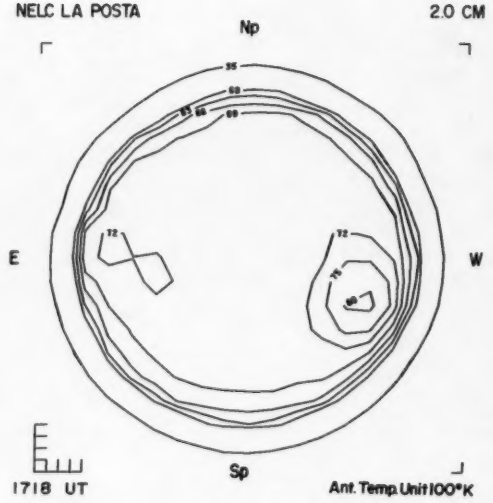


1415 UT

CORONA
NO DATA

NELC LA POSTA

2.0 CM

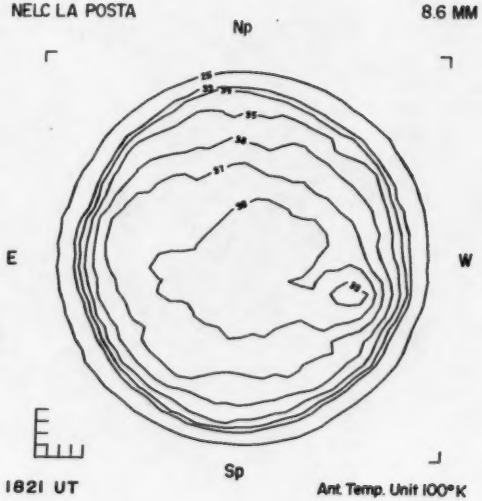


1718 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM



1821 UT

Ant. Temp. Unit 100°K

77
Jul 75

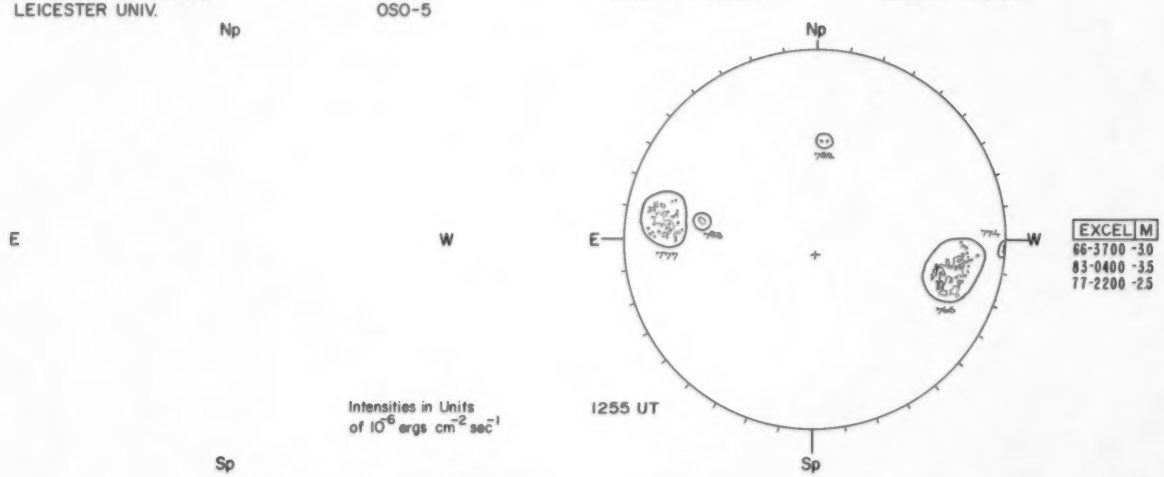
JULY 23, 1975 (P=6.85 B_o=5.04 L_o=126.30)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

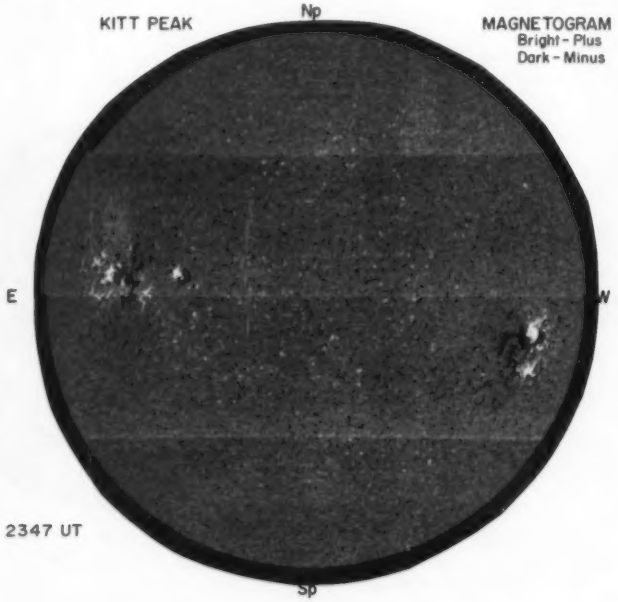
X-RAY
OSO-5

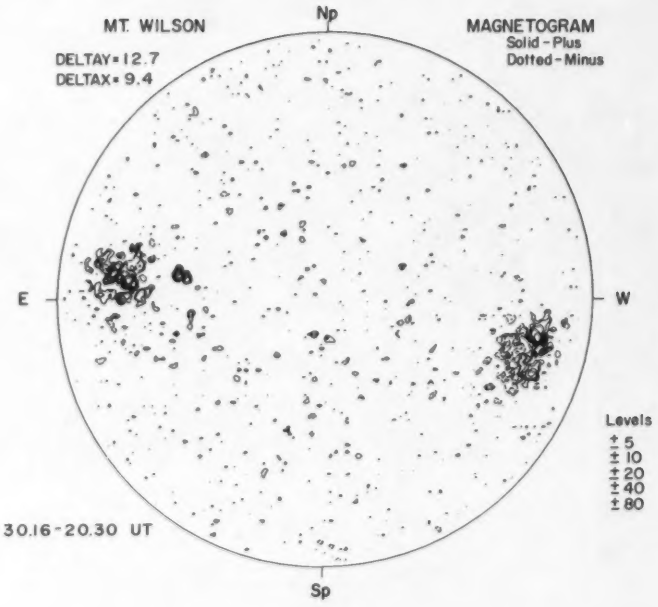
McMATH-HULBERT

CALCIUM REPORT

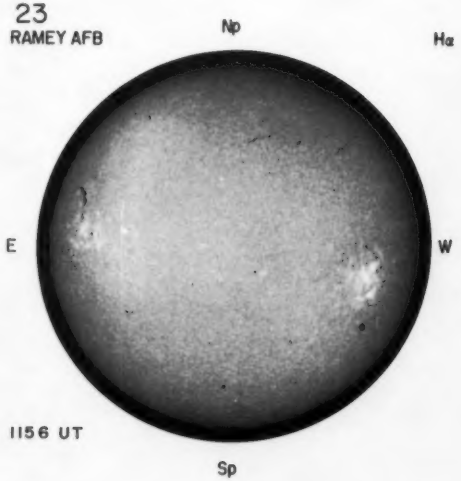


Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}



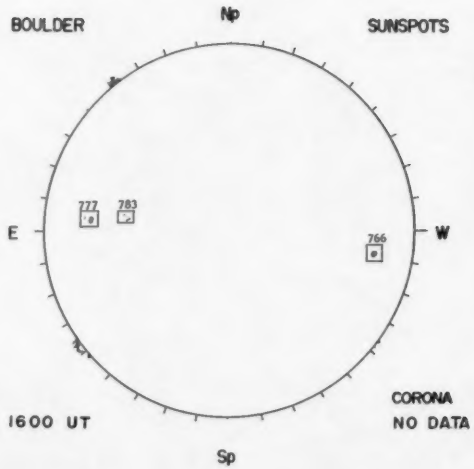


23
RAMEY AFB



1156 UT

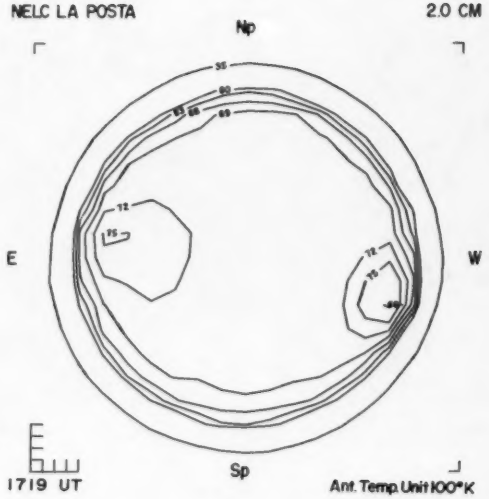
BOULDER



1600 UT

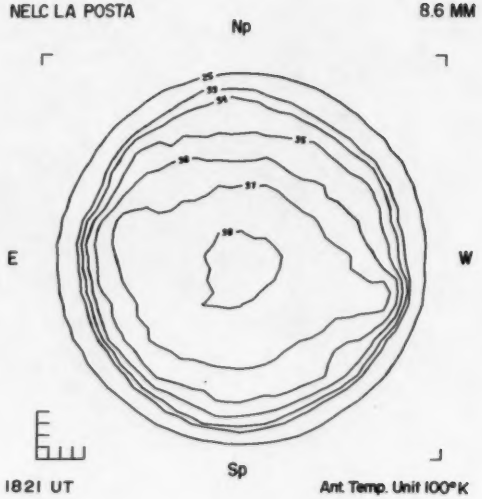
CORONA
NO DATA

NELC LA POSTA 2.0 CM



1719 UT

NELC LA POSTA 8.6 MM



1821 UT

79
Jul 75

JULY 24, 1975 (P=7.28 B_o=5.13 L_o=113.07)

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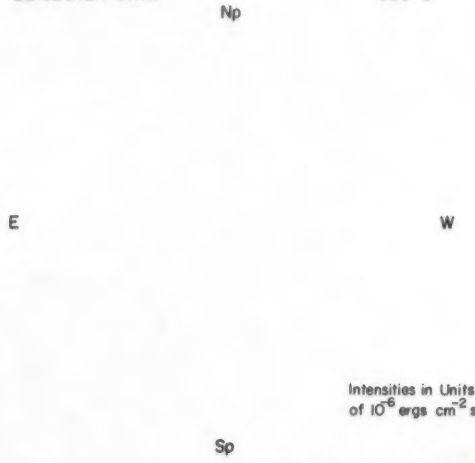
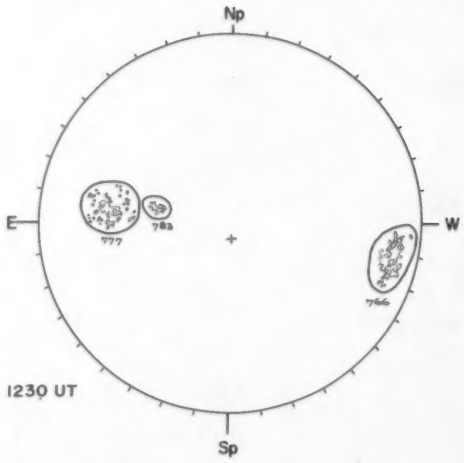
X-RAY
OSO-5



Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

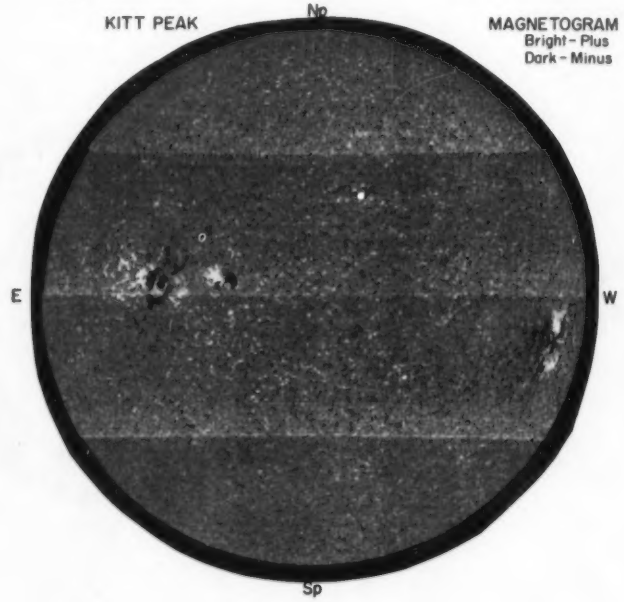
CALCIUM REPORT



FAIR	D
66-3500	-3.0
83-0600	-3.0

1230 UT

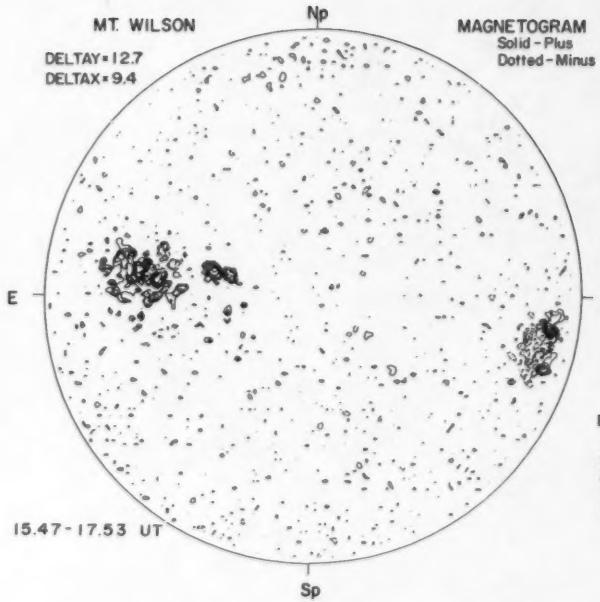
KITT PEAK



MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4



MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

15.47 - 17.53 UT

24

RAMEY AFB

Np

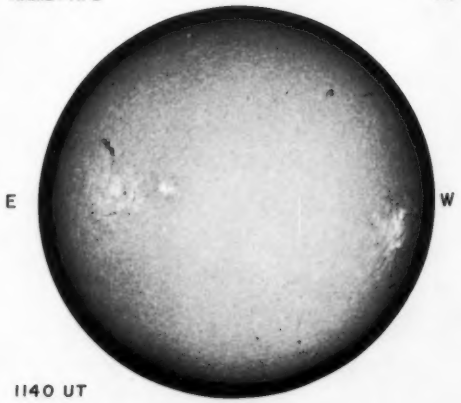
Hα

E

W

1140 UT

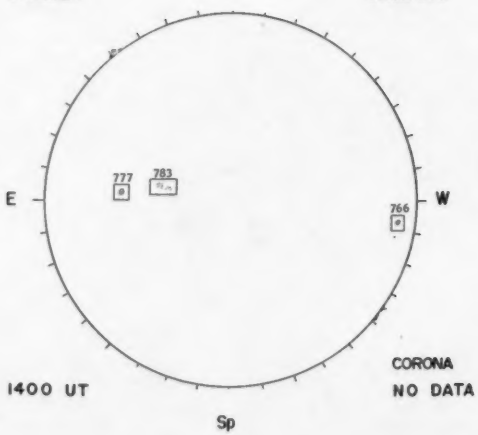
Sp



BOULDER

Np

SUNSPOTS



CORONA

NO DATA

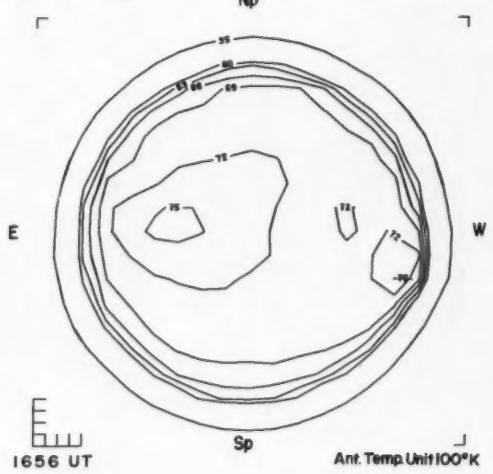
1400 UT

Sp

NELC LA POSTA

2.0 CM

Np



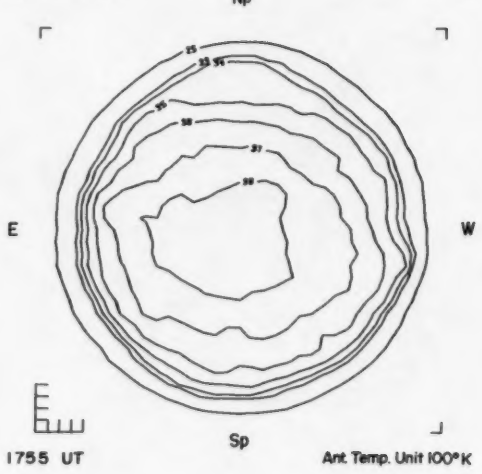
1656 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM

Np



1755 UT

Ant. Temp. Unit 100°K

81

Jul 75

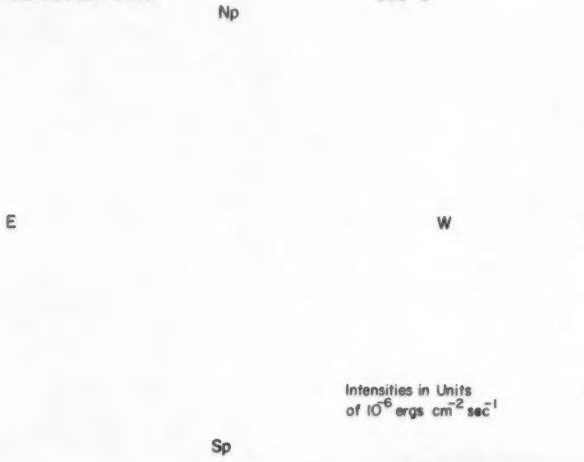
JULY 25, 1975 (P=7.70 B_o=5.21 L_o=99.84)

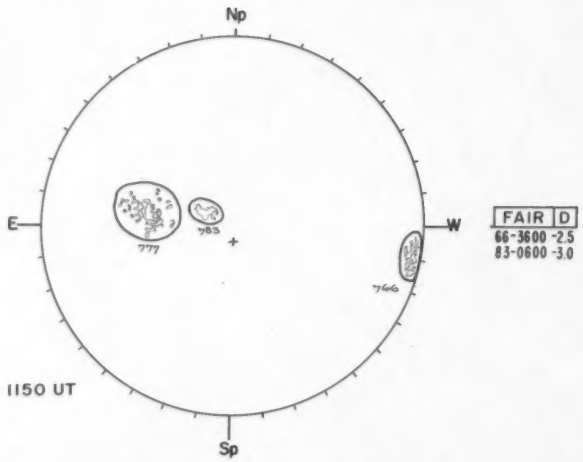
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT





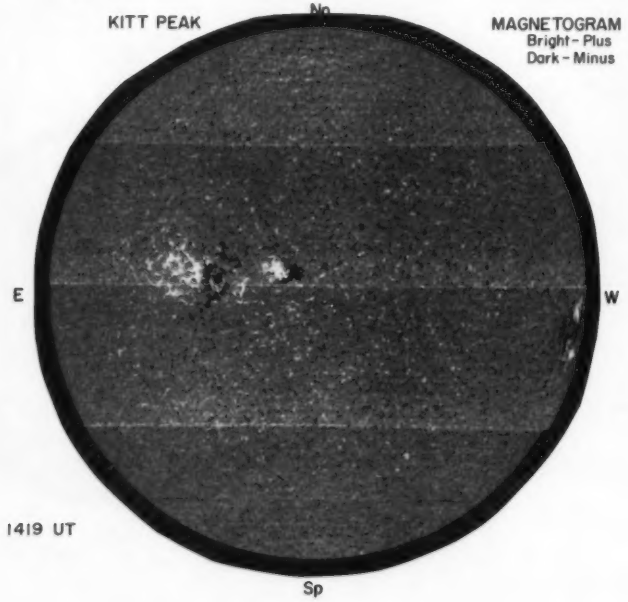
FAIR | D
66-3600 -2.5
83-0600 -3.0

1150 UT

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

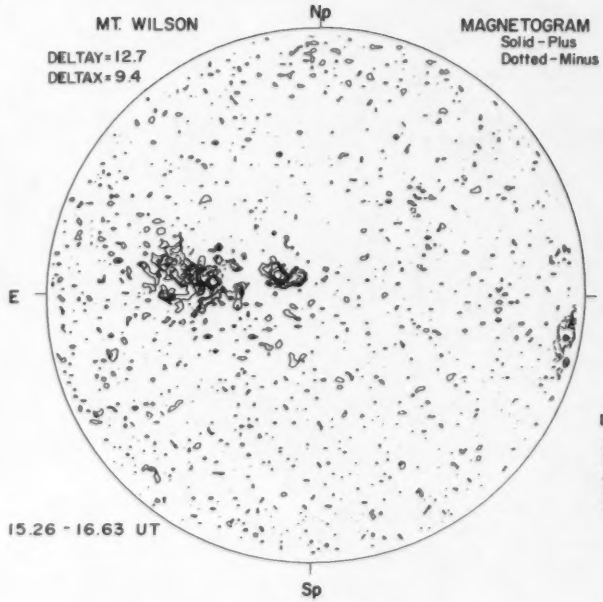


1419 UT

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4

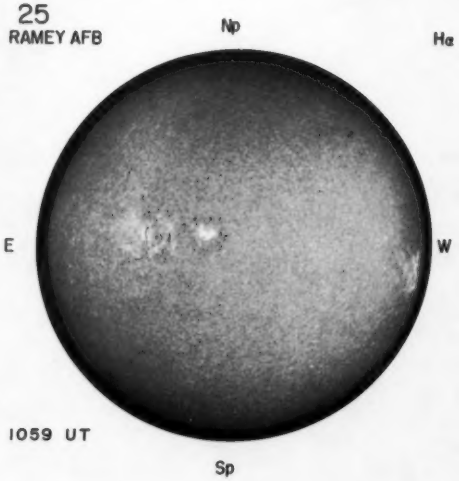
MAGNETOGRAM
Solid - Plus
Dotted - Minus



Levels
± 5
± 10
± 20
± 40
± 80

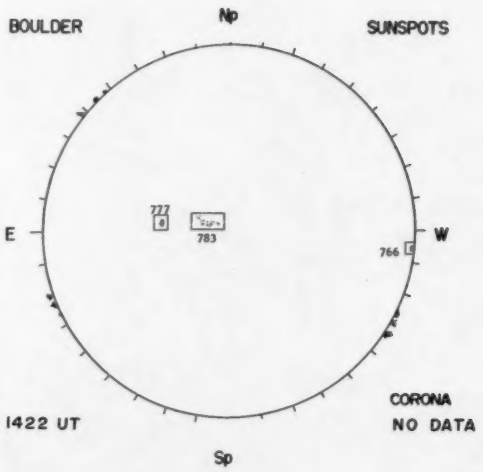
15.26 - 16.63 UT

25
RAMEY AFB



1059 UT

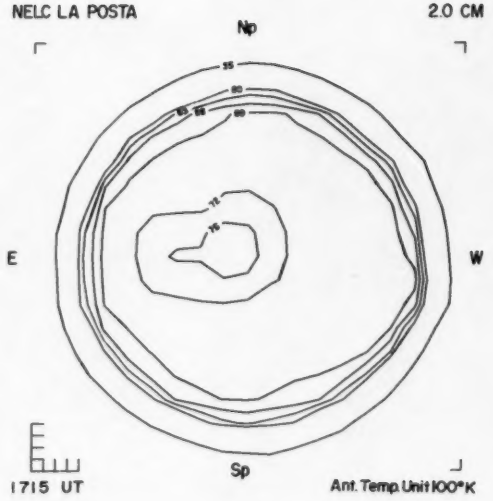
BOULDER



1422 UT

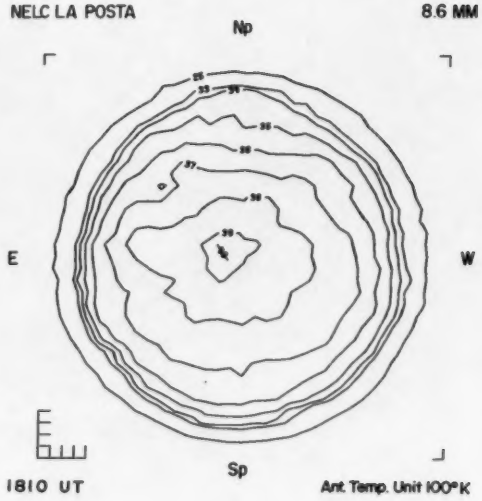
CORONA
NO DATA

NELC LA POSTA



1715 UT

NELC LA POSTA



1810 UT

83
Jul 75

JULY 26, 1975 (P=8.12 B_o=5.29 L_o=86.61)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

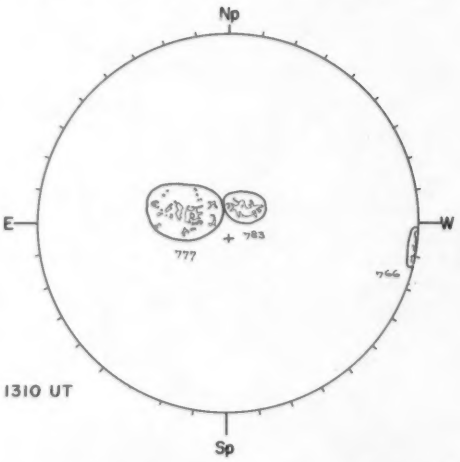
Np

E W

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

Sp

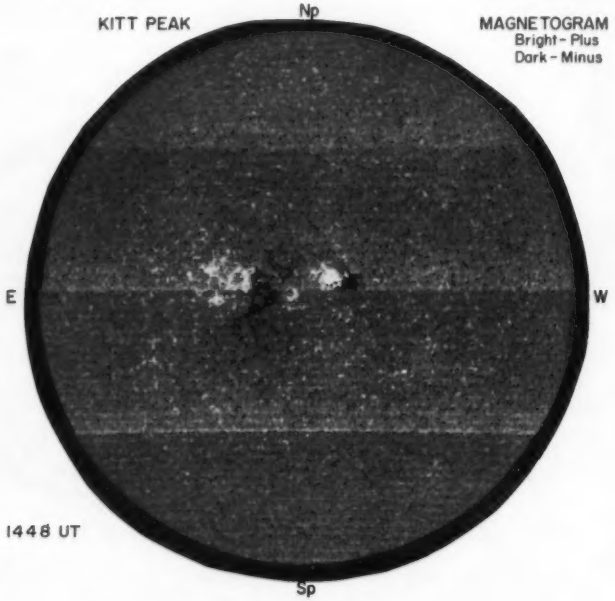
McMATH-HULBERT CALCIUM REPORT



EXCEL M
83-1100-3.0

1310 UT

KITT PEAK

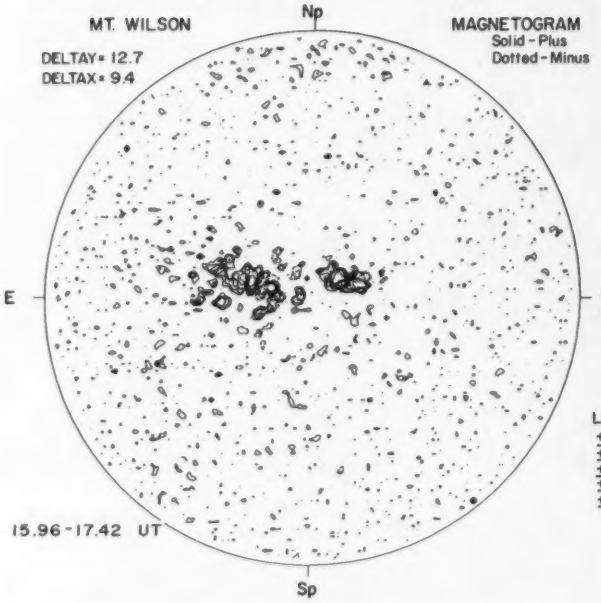


MAGNETOGRAM
Bright - Plus
Dark - Minus

1448 UT

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4

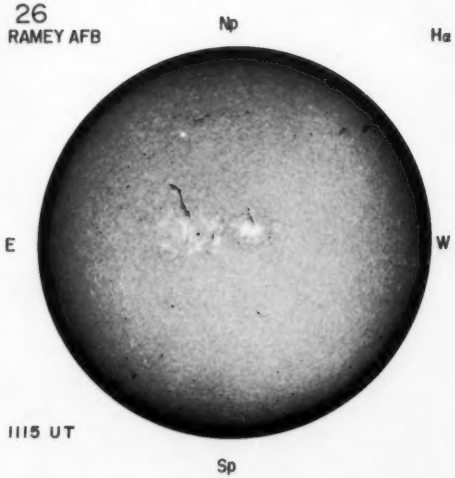


MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

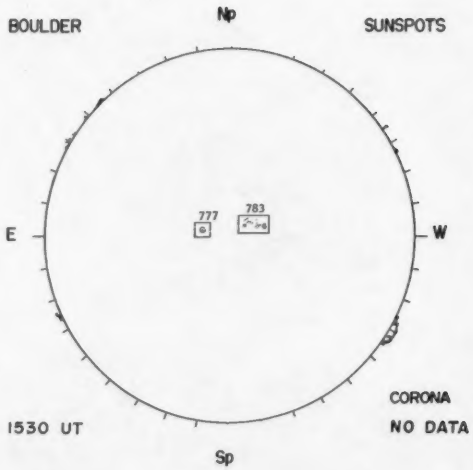
15.96 - 17.42 UT

26
RAMEY AFB



1115 UT

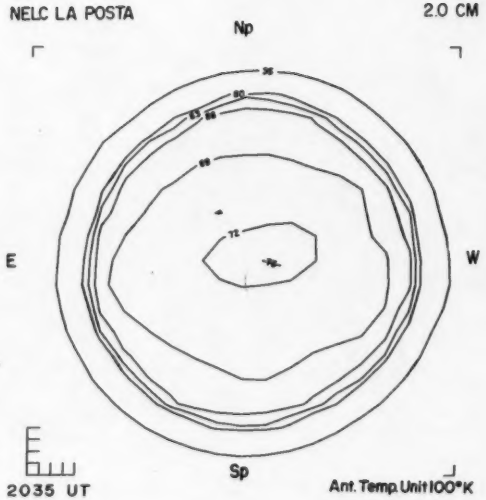
BOULDER



CORONA
NO DATA

1530 UT

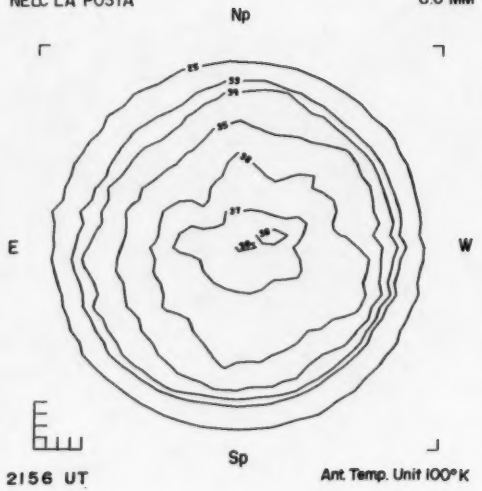
NELC LA POSTA 2.0 CM



2035 UT

Ant. Temp. Unit 100°K

NELC LA POSTA 8.6 MM



2156 UT

Ant. Temp. Unit 100°K

85
Jul 75

JULY 27, 1975 (P=8.54 B_o=5.38 L_o=73.38)

86
Jul 75

UNIV. COLLEGE LONDON
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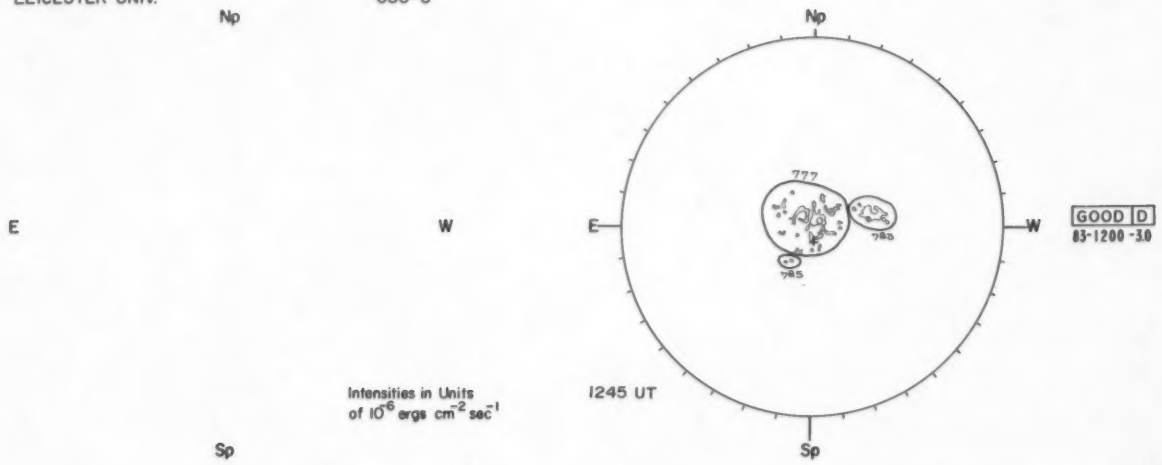
X-RAY
OSO-5

McMATH-HULBERT

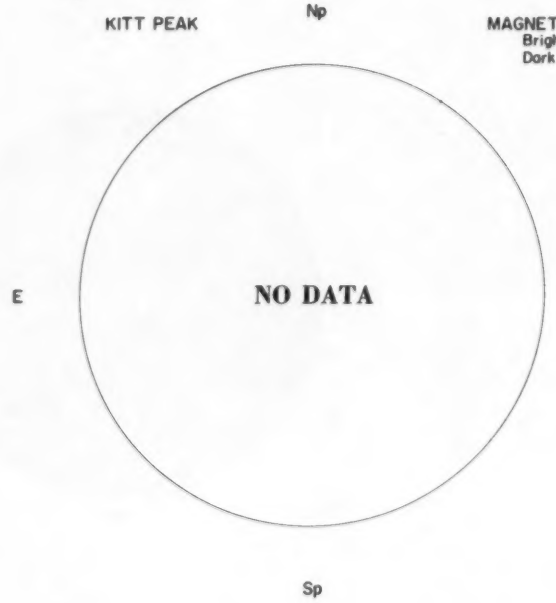
CALCIUM REPORT



Intensities in Units
of 10^6 ergs cm^{-2} sec^{-1}

KITT PEAK

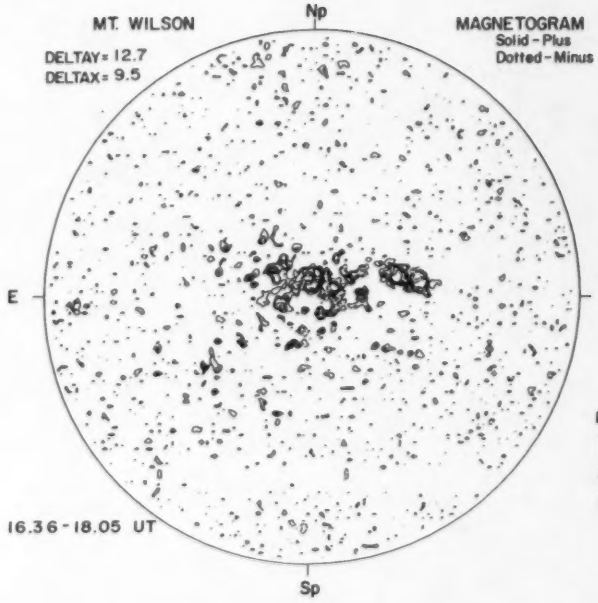
MAGNETOGRAM
Bright - Plus
Dark - Minus



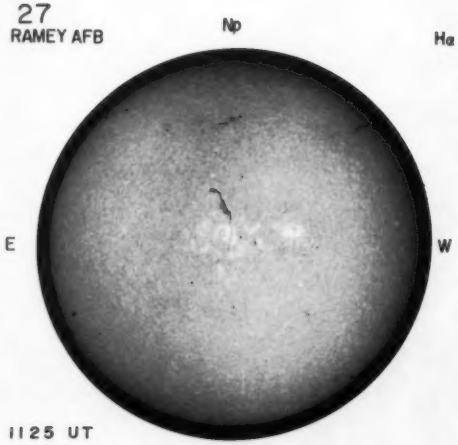
MT. WILSON

MAGNETOGRAM
Solid - Plus
Dotted - Minus

DELTAY= 12.7
DELTAX= 9.5

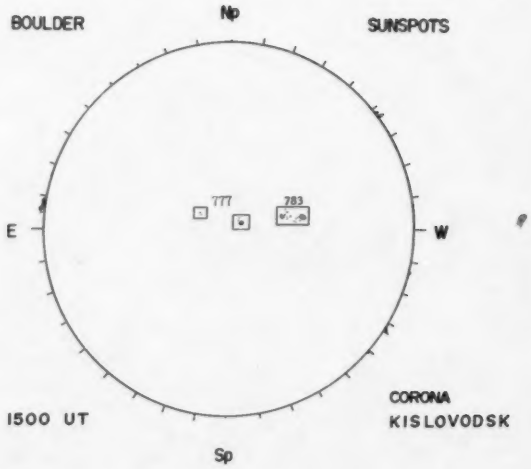


27
RAMEY AFB



1125 UT

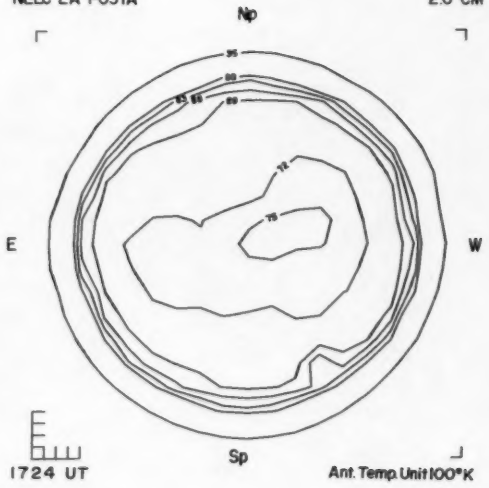
BOULDER



1500 UT

CORONA
KISLOVODSK

NELC LA POSTA



1724 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

Ant. Temp. Unit 100°K

87
Jul 75

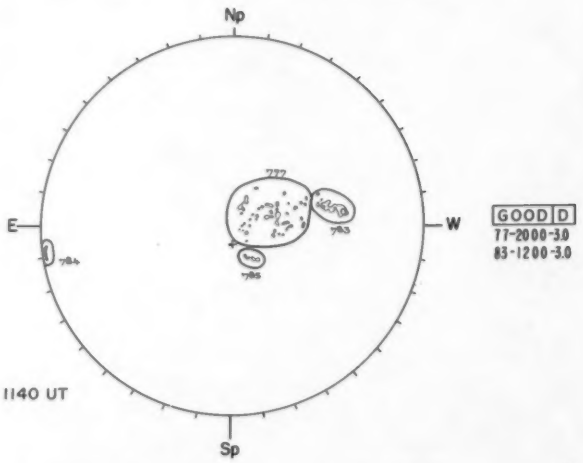
JULY 28, 1975 (P=8.96 B_o=5.46 L_o=60.15)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

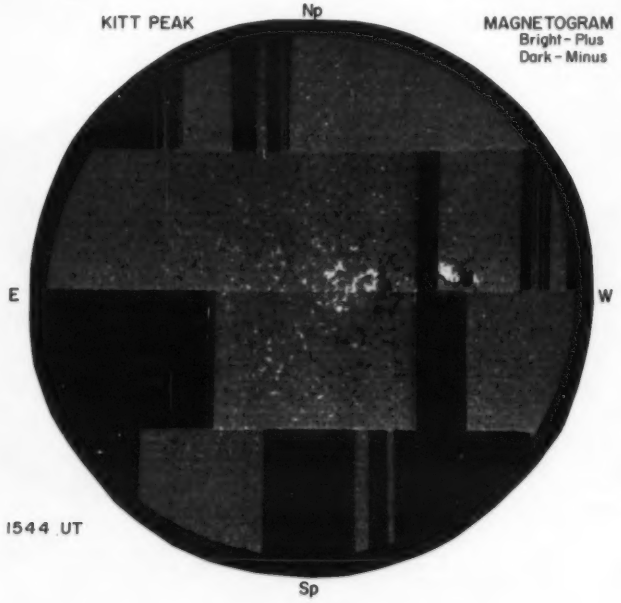


GOOD | D
77-2000-3.0
83-1200-3.0

1140 UT

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

KITT PEAK

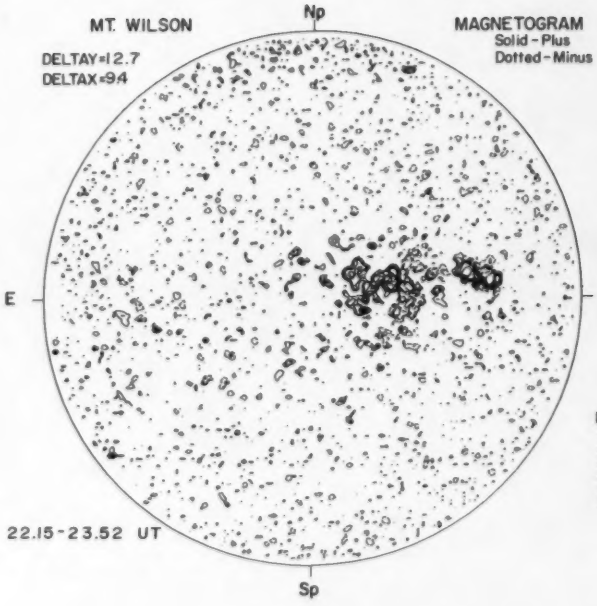


MAGNETOGRAM
Bright - Plus
Dark - Minus

1544 UT

MT. WILSON

DELTAY=12.7
DELTAX=9.4

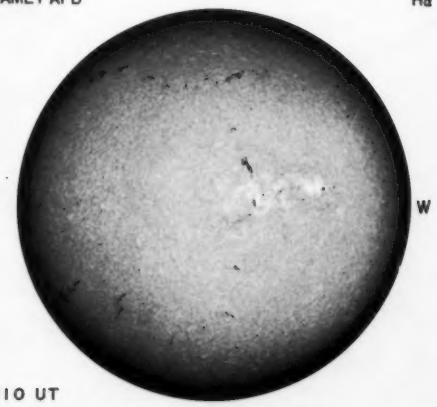


MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

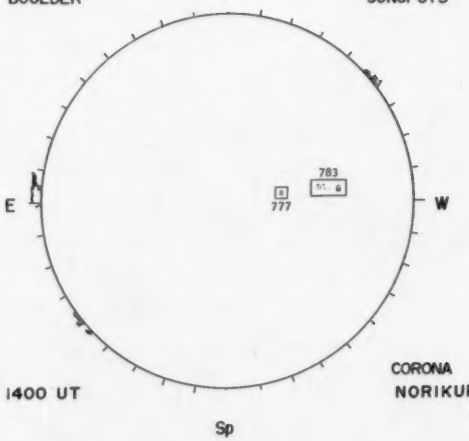
22.15-23.52 UT

28
RAMEY AFB



1110 UT

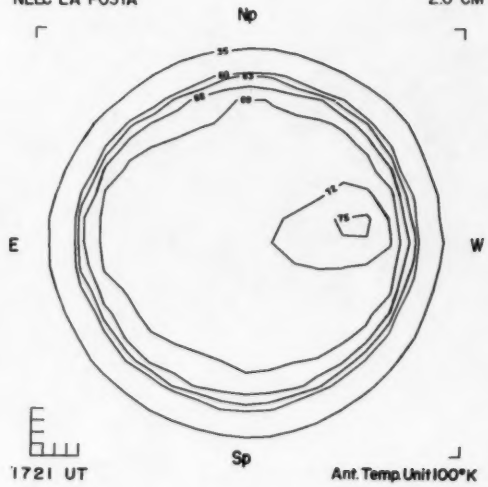
BOULDER



1400 UT

CORONA
NORIKURA

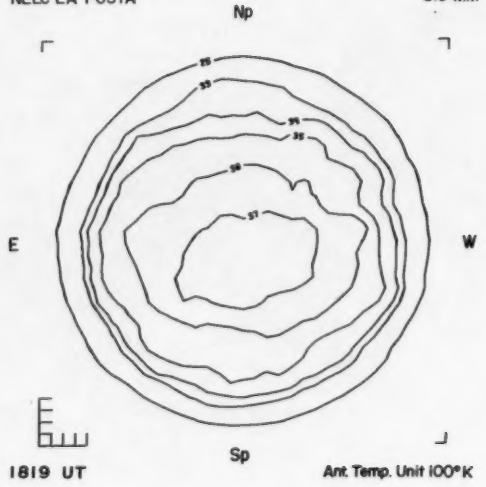
NELC LA POSTA



1721 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1819 UT

Ant. Temp. Unit 100°K

89
Jul 75

JULY 29, 1975 (P=9.37 B_o=5.54 L_o=46.93)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

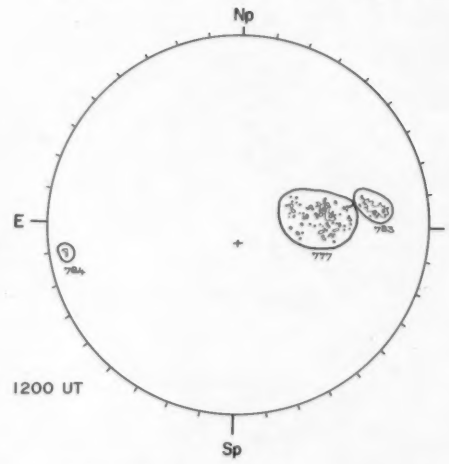
E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

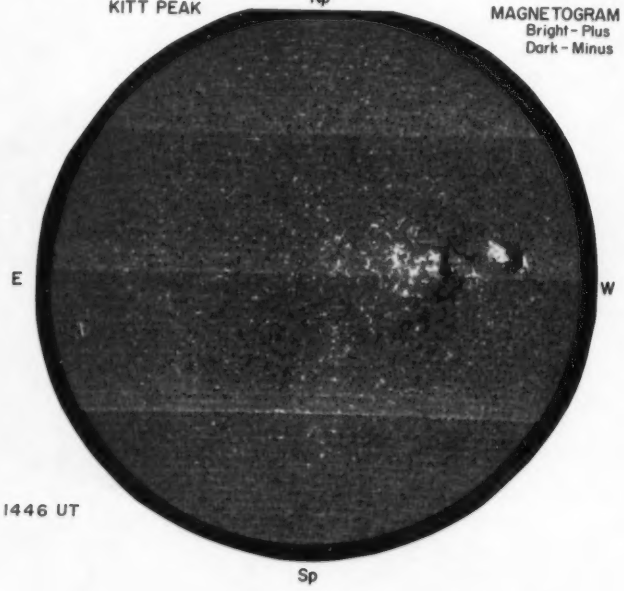


EXCEL S
83-1400-2.5

1200 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

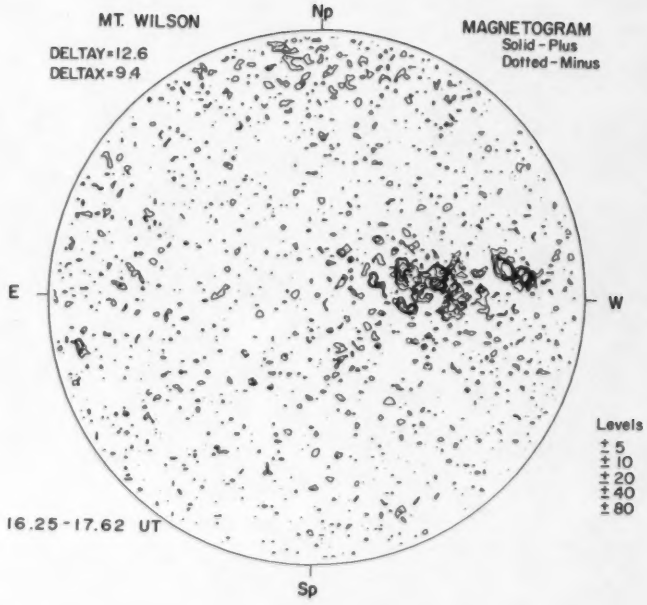


1446 UT

MT. WILSON

DELTAY=12.6
DELTAX=9.4

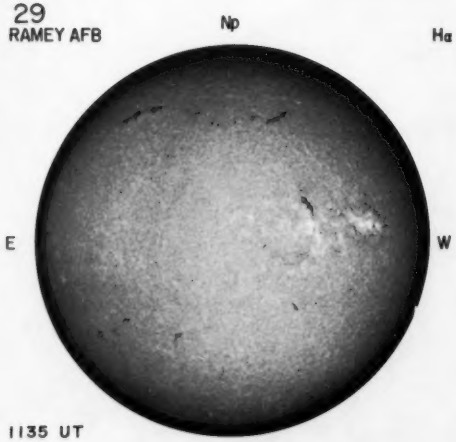
MAGNETOGRAM
Solid - Plus
Dotted - Minus



Levels
±5
±10
±20
±40
±80

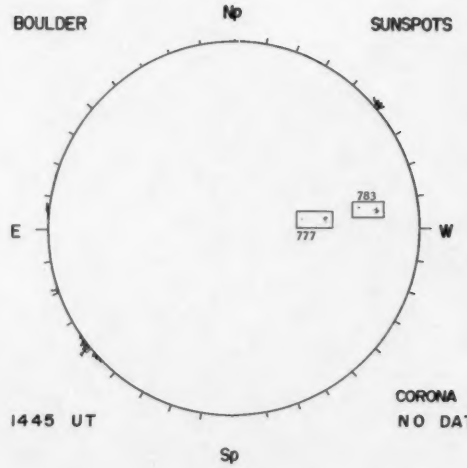
16.25 - 17.62 UT

29
RAMEY AFB



1135 UT

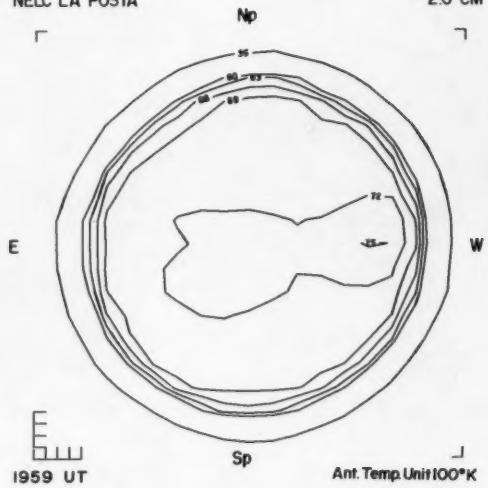
BOULDER



1445 UT

CORONA
NO DATA

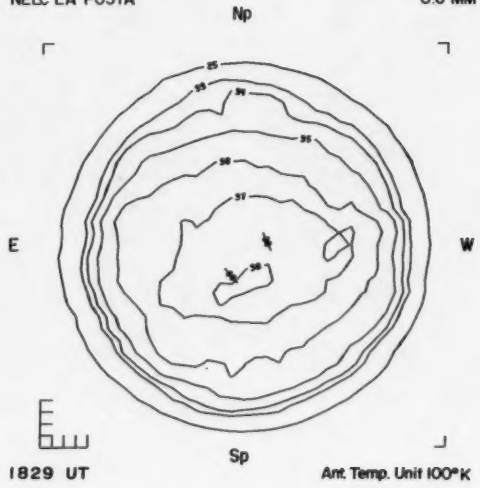
NELC LA POSTA



1959 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1829 UT

Ant. Temp. Unit 100°K

91
Jul 75

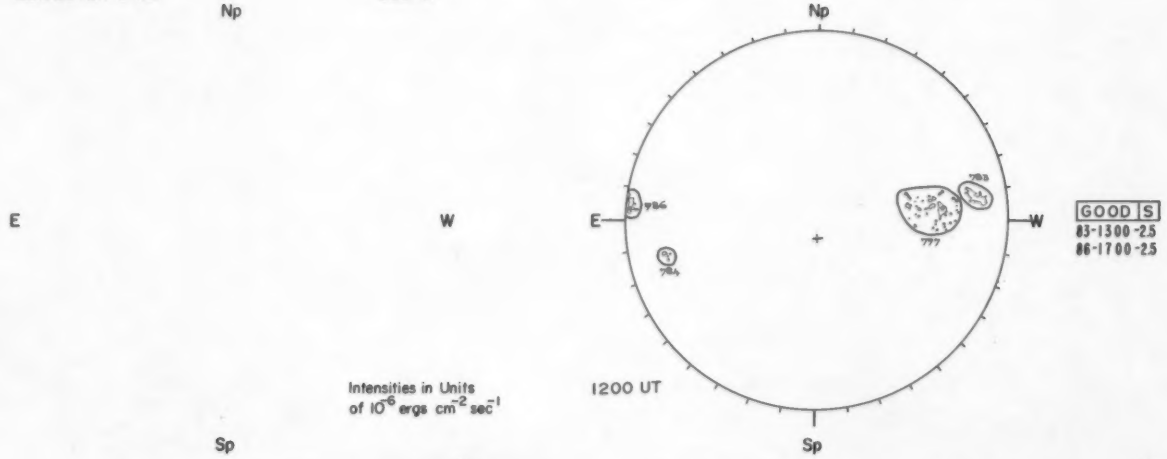
JULY 30, 1975 (P=9.78 B_o=5.61 L_o=33.70)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

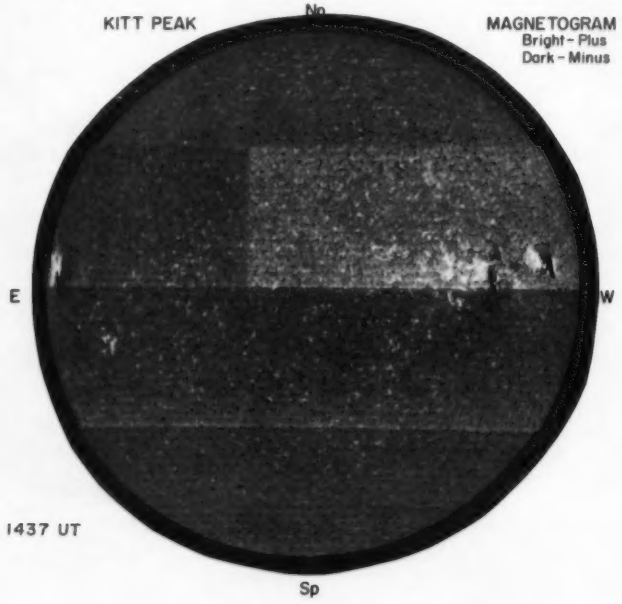
CALCIUM REPORT



Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

KITT PEAK

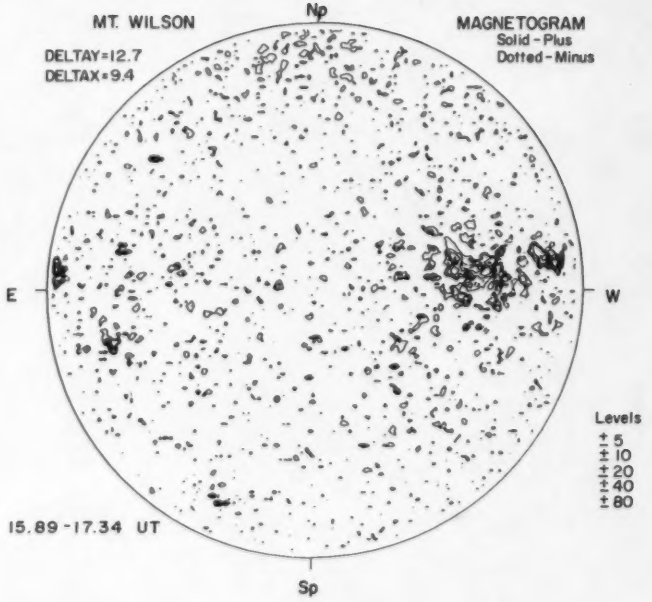
MAGNETOGRAM
Bright - Plus
Dark - Minus

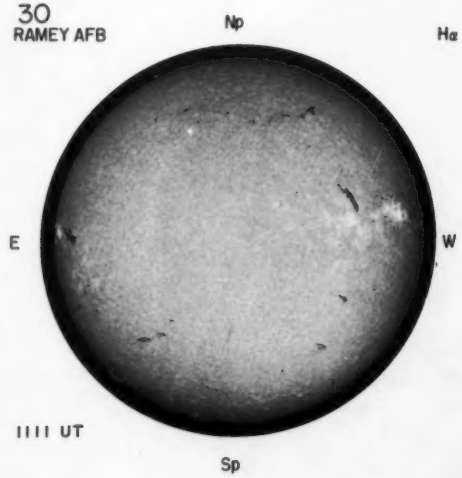


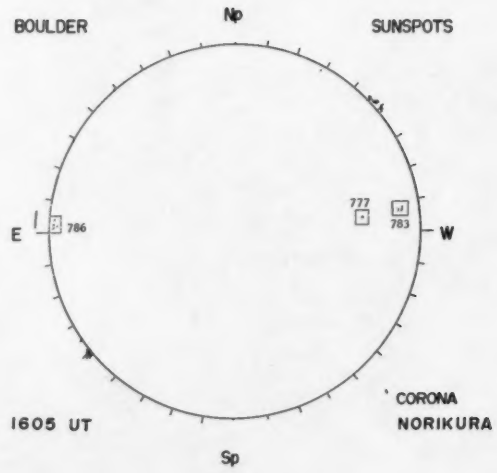
MT. WILSON

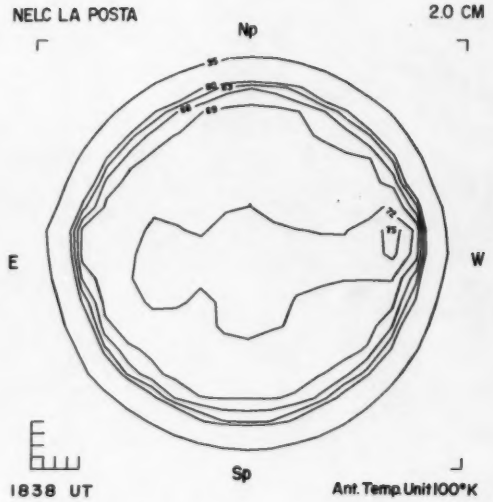
DELTAY=12.7
DELTAX=9.4

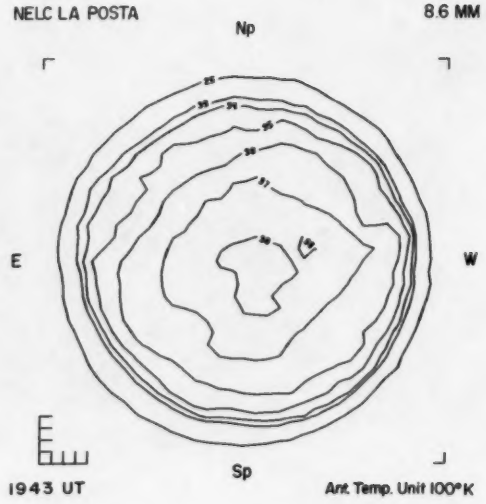
MAGNETOGRAM
Solid - Plus
Dotted - Minus




30
RAMEY AFB
Np
Hα
E
W
1111 UT
Sp


BOULDER
Np
SUNSPOTS
E
786
777
783
W
CORONA
NORIKURA
1605 UT
Sp


NELC LA POSTA
2.0 CM
Np
E
W
Sp
1838 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
E
W
Sp
1943 UT
Ant. Temp. Unit 100°K

JULY 31, 1975 (P=10.18 B_o=5.69 L_o=20.47)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

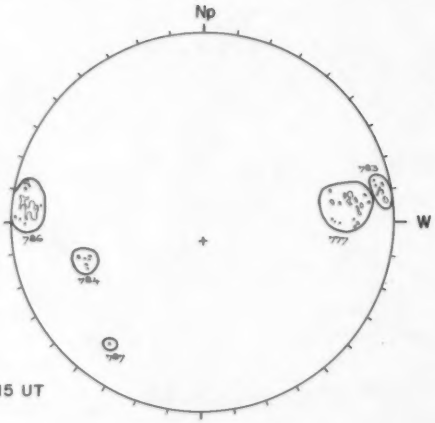
E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

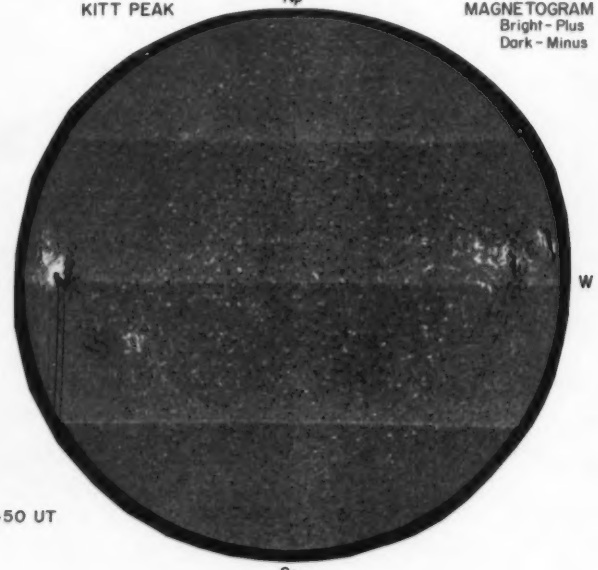
CALCIUM REPORT



1215 UT

EXCEL S
83-1100-2.5
86-2000-35

KITT PEAK



1450 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

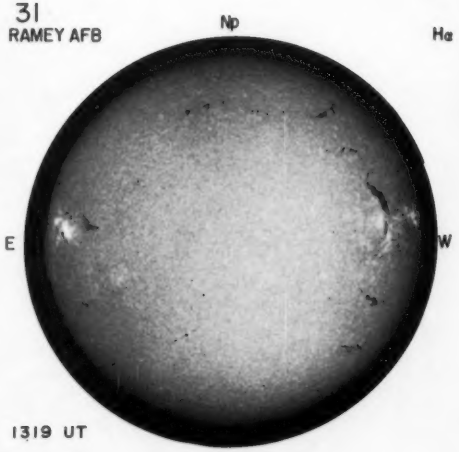
MT. WILSON

DELTAY=
DELTAX=

MAGNETOGRAM
Solid - Plus
Dotted - Minus

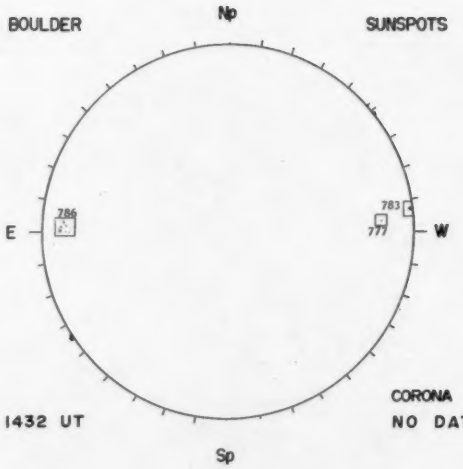
Levels
±5
±10
±20
±40
±80

31
RAMEY AFB



1319 UT

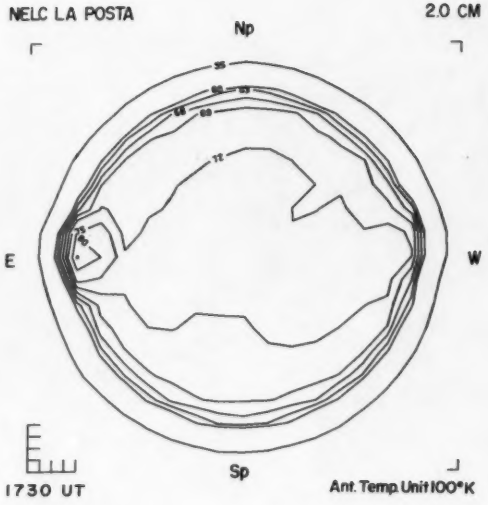
BOULDER



1432 UT

CORONA
NO DATA

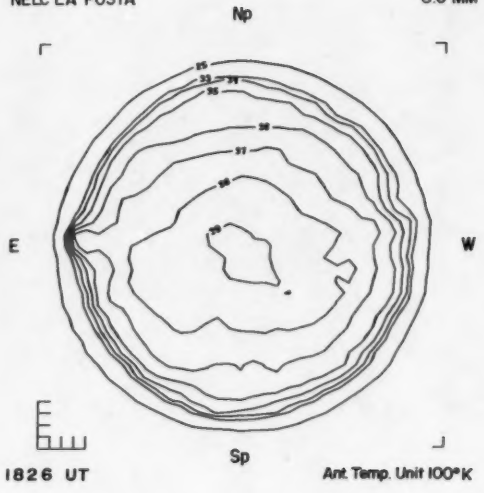
NELC LA POSTA



1730 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



1826 UT

Ant. Temp. Unit 100°K

95
Jul 75

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MCMATH REGION 13738 CMP DATE 1.0

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	6	24					
75	6	25	13738	N06 E74	58	2600	3.5
75	6	26	13738	N05 E62	57	3000	3.5
75	6	27	13738	N06 E47	57	2800	3.0
75	6	28	13738	N06 E33	58	2700	3.0
75	6						
75	6	29	13738	N06 E20	59	2800	3.0
75	6						
75	6	30	13738	N07 E06	60	3000	3.0
75	6						
75	7	1	13738	N07 W08	58	3000	3.0
75	7						
75	7	2	13738	N07 W22	57	3500	3.0
75	7						
75	7	3	13738	N07 W35	58	3500	3.0
75	7	4	13738	N07 W48	57	3500	2.5
75	7	5	13738	N07 W61	58	3200	2.0
75	7	6	13738	N07 W74	59	2000	2.0
75	7	7	13738	N07 W88	57	500	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19580	N07 E82	61	(BP	4	B	150	1	HSO
19580	N06 E67	59	(BP	5	B	250	4	HAX
19580	N06 E53	63	(BP	5	B	250	1	HHX
19580	N07 E40	63	(BP	5	B	240	1	HHX
19582	N02 E26	64	X					
19580	N07 E28	62	(BP)	5	B	280	4	CSO
19582	N02 E14	62	(AP)	2				
19580	N07 E14	62	(BP)	5	B	290	16	CHO
19582	N02 E03	61	(B	2				
19580	N07 E03	61	(BP)	6	R	240	1	HHX
19580	N08 W11	59	(BP)	4	B	270	16	CHO
19582	N03 W09	57	(B)	2				
19580	N07 W25	59	(BP)	6				
19582	N03 W22	56	X		B	230	12	CHO
19580	N07 W36	58	(BP)	4	B	300	16	CHO
19580	N07 W50	59	(BP)	5	R	220	3	CSO
19580	N07 W67	63	(AP)	3	B	270	1	HSX
19580	N08 W80	64	(AP)	2	B	220	1	HHX

MCMATH REGION 13742 CMP DATE 2.1

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	1	13742	S48 E08	42	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13757 CMP DATE 2.4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	8	13757	N07 W81	39	300	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13744 CMP DATE 3.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	1	13744	N11 E26	24	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13758 CMP DATE 4.3

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	8	13758	N13 W55	13	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13745 CMP DATE 4.4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	1	13745	N04 E38	12	100	1.0
75	7	2	13745	N04 E25	10	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13760 CMP DATE 4.6

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	9	13760	N01 W64	9	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13748 CMP DATE 5.4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	2	13748	N09 E38	358	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

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MCMATH REGION 13752 CMP DATE 5.7

			CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	4	13752	N36 E15	355	100	2.0									

MCMATH REGION 13749 CMP DATE 7.0

			CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	3	13749	N34 E45	339	100	1.5									
75	7	4	13749	N34 E32	338	100	1.0									

MCMATH REGION 13759 CMP DATE 7.1

			CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	8	13759	N32 W19	337	100	1.0									

MCMATH REGION 13767 CMP DATE 8.0

			CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	14	13767	S08 W86	325	500	2.5									

MCMATH REGION 13754 CMP DATE 8.1

			CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	5	13754	N08 E32	326	100	1.0									
75	7	6	13754	N09 E21	324	100	1.5									

MCMATH REGION 13753 CMP DATE 8.5

			CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	5	13753	S08 E41	317	100	1.5									
75	7	6	13753	S08 E27	318	300	3.0	19585	S08 E25	319	(B)	2	B	20	5	BXO
75	7	7	13753	S08 E11	318	300	3.0	19585	S08 E11	319	(BP)	2	B	10	4	BXO
75	7	8	13753	S08 W02	320	400	2.0		S06 W06				B	0	4	AXX
75	7	9	13753	S08 W15	320	200	1.5									
75	7	10	13753	S08 W29	321	200	1.0									
75	7	11	13753	S08 W42	321	100	1.0									
75	7	12	13753	S08 W56	320	100	1.0									

MCMATH REGION 13750 CMP DATE 9.8 RETURN OF REGION 13722 ROTATION 2

			CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	3	13750	N03 E45	299	600	1.5									
75	7	4	13750	N06 E74	296	700	2.5	19584	N05 E69	301	AF					
75	7	5	13750	N06 E61	297	1000	3.0	19584	N06 E59	298	(BF)	3	B	20	10	BXI
75	7	6	13750	N06 E47	298	1500	3.0	19584	N06 E46	298	(B)	2	B	30	19	BXI
75	7	7	13750	N06 E31	298	1500	3.0	19584	N06 E31	299	(BF)	2	B	20	13	BXO
75	7	8	13750	N06 E17	301	1300	3.0	19586	N06 E10	306	X		B	0	3	AXX
75	7							19584	N07 E17	299	BP		B	30	17	BXO
75	7							19587	N10 E18	298	X					
75	7	9	13750	N06 E04	301	1300	3.0	19587	N09 E03	300	(AP)	4				
75	7							19584	N06 E04	299	(BP)	4	R	60	17	DRI
75	7	10	13750	N06 W09	301	1000	3.0	19586	N06 W15	306	A					
75	7							19587	N09 W10	301	(AP)	3				
75	7							19584	N05 W08	299	(BP)	4	B	20	24	BXO
75	7	11	13750	N06 W22	301	1500	2.5	19584	N05 W22	300	(BP)	4	B	40	21	BXI
75	7	12	13750	N06 W36	300	2000	3.0	19584	N05 W35	298	BP		B	70	30	DSI

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(Cont'd)

75	7	13	13750	N06 W47	299	2000	3.0	19587	N12 W54	302	X						
75	7							19584	N06 W52	300	(9)	5	B	200	26	DAI	
75	7	14	13750	N06 W60	299	2200	3.0	19584	N06 W68	303	(BP)	4	B	200	24	DSI	
75	7							19587	N12 W65	300	BP						
75	7	15	13750	N06 W75	301	2900	3.0	19584	N06 W75	300	(BP)	3	B	260	11	CSI	
75	7	16	13750	N06 W88	301	1000	2.0										

MCMATH REGION 13761 CMP DATE 9.9

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	9	13761	S40 E05	300	100	1.0									

MCMATH REGION 13755 CMP DATE 10.1

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	6	13755	N14 E46	299	100	2.0									
75	7	7	13755	N14 E33	296	200	1.0									

MCMATH REGION 13751 CMP DATE 10.7 RETURN OF REGION 13729 ROTATION 2

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	4	13751	S11 E85	285	400	1.0									
75	7	5	13751	S12 E70	288	600	1.5									
75	7	6	13751	S12 E55	290	900	1.5									
75	7	7	13751	S11 E41	288	900	1.5									
75	7	8	13751	S10 E29	289	800	1.5									
75	7	9	13751	S10 E15	290	600	1.5									
75	7	10	13751	S10 E02	290	500	1.5									
75	7	11	13751	S10 W12	291	500	1.5									
75	7	12	13751	S10 W26	290	400	1.5									
75	7	13	13751	S10 W38	290	600	1.5									
75	7	14	13751	S10 W53	292	400	1.5									
75	7	15	13751	S11 W66	292	300	1.5									
75	7	16	13751	S10 W80	293	300	1.5									

MCMATH REGION 13763 CMP DATE 11.4

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	10	13763	S10 E12	280	100	1.5									
75	7	11	13763	S10 W01	280	100	1.5									
75	7	12	13763	S10 W15	279	100	1.5									

MCMATH REGION 13773 CMP DATE 14.2

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	18	13773	S13 W57	243	100	1.5		S10 W44				B	40	2	HSX

MCMATH REGION 13762 CMP DATE 14.8

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	9	13762	N11 E70	235	100	1.0									
75	7	10	13762	N12 E56	236	200	1.5									

MCMATH REGION 13769 CMP DATE 15.6

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	16	13769	S01 W12	225	100	2.0									

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MCMATH REGION 13764 CMP DATE 16.4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	9					
75	7	10	13764	S11 E83	209	900	2.0
75	7	11	13764	S11 E65	214	1200	3.0
75	7	12	13764	S12 E51	213	1100	2.5
75	7	13	13764	S12 E39	213	900	2.5
75	7	14	13764	S12 E26	213	900	2.0
75	7	15	13764	S12 E12	214	700	2.0
75	7	16	13764	S12 W02	215	700	2.0
75	7	17	13764	S12 W15	213	600	2.0
75	7	18	13764	S12 W28	214	700	2.0
75	7						
75	7	19	13764	S12 W43	215	700	2.0
75	7	20	13764	S12 W55	214	800	2.0
75	7	21	13764	S12 W68	214	600	2.0
75	7	22	13764	S12 W82	215	500	1.5

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19588	S10 E88	215	AP					
19588	S10 E75	216	AP		B	150	2	CSO
19588	S10 E60	218	(AP)	4	B	100	3	CSO
19588	S10 E47	216	AP		B	70	7	CSO
19588	S10 E32	216	(AP)	5	B	60	3	CSO
19588	S10 E19	216	(AP)	5	B	60	4	CSO
19588	S11 E09	216	(AP)	4	B	40	4	HSO
19588	S10 W05	217	(AP)	4	B	30	2	HSX
19588	S09 W18	216	(AP)	4	B	30	1	HSX
19588	S09 W32	217	(AP)	4	B	30	1	HSX
19591	S13 W29	214	(AP)	1	B	10	1	AXX
19588	S09 W45	217	(AP)	4	R	50	2	CSO
19588	S09 W58	217	(AP)	3	B	30	1	HSX
19588	S09 W72	217	AP		B	20	3	HSX

MCMATH REGION 13774 CMP DATE 17.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	18	13774	S04 W14	200	200	2.5
75	7	19	13774	S04 W29	201	300	2.0
75	7	20	13774	S04 W43	202	500	2.0
75	7	21	13774	S04 W56	202	400	2.0
75	7	22	13774	S05 W69	202	400	1.5
75	7	23	13774	S04 W85	204	200	1.0

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19592	S03 W16	201	(AP)	2	B	240	13	DHI
19592	S03 W31	203	(AP)	3	R	20	2	HAX
19592	S03 W46	205	(AP)	3	B	10	1	AXX

MCMATH REGION 13768 CMP DATE 17.7

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	15	13768	N29 E28	198	100	1.0
75	7	16	13768	N29 E15	198	100	1.5

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13779 CMP DATE 18.8

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	21	13779	S19 W36	182	100	1.5

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13770 CMP DATE 19.9

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	16	13770	N22 E45	168	100	1.0

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS

MCMATH REGION 13766 CMP DATE 20.1 RETURN OF REGION 13736 ROTATION 2

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	13	13766	S06 E86	166	600	3.0
75	7	14	13766	S06 E72	167	2600	3.5
75	7	15	13766	S07 E60	166	3000	3.5
75	7						
75	7	16	13766	S07 E47	166	3000	3.5
75	7						
75	7	17	13766	S07 E34	164	3400	3.0
75	7						
75	7						
75	7	18	13766	S07 E21	165	3400	3.5
75	7						
75	7						
75	7						
75	7						

SUNSPOT DATA

NW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
19589	S06 E80	168	BP		B	140	2	HSX
19589	S07 E68	167	(BP)	5	B	170	7	CAI
19589	S08 E60	165	(BP)	4	B	130	6	CSO
	S10 E67				B	40	2	HRX
19589	S08 E44	168	(BY)	4	B	260	7	CSO
19590	S12 E45	167	X		B	30	1	HSX
19590	S12 E30	168	(AP)	2	B	30	1	HSX
	S12 E30				B	0	3	AXX
19589	S07 E31	167	(BY)	5	B	260	6	CSO
19589	S05 E19	166	(BP)	5	B	250	6	CSO
19590	S08 E20	165	(BP)	2	B	30	1	HSX
	S10 E16				B	0	5	AXX
	S09 E09				B	20	1	AXX
	S10 E03				R	10	2	BXO

(Cont'd)

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(Cont'd)	75	7	19	13766	S06 E06	166	3200	3.0	19589	S06 E05	167	(BP)	5	R	170	18	DSI
	75	7							19590	S09 E06	166	(B)	2	R	20	2	HAX
	75	7								S10 E04				R	10	2	BXO
	75	7	20	13766	S06 W07	166	3400	3.0	19589	S05 W09	168	(BP)	5	B	250	14	CHI
	75	7							19590	S10 W08	167	B		B	20	1	HRX
	75	7								S10 W10				B	6	1	AXX
	75	7	21	13766	S05 W20	166	3300	3.0	19589	S07 W23	168	(BP)	5	B	150	11	CSO
	75	7								S08 W23				B	10	9	AXX
	75	7								S07 W17				B	20	13	AXX
	75	7	22	13766	S07 W33	166	3700	3.0	19589	S06 W38	169	(BP	5	B	150	2	CSO
	75	7								S08 W38				B	10	3	BXO
	75	7								S07 W30				B	10	2	AXX
	75	7	23	13766	S07 W47	166	3700	3.0	19589	S05 W54	169	AP		B	120	1	HSX
	75	7	24	13766	S07 W60	167	3500	3.0	19589	S05 W64	170	(AP)	4	B	130	3	HSX
	75	7	25	13766	S07 W73	167	3600	2.5	19589	S05 W76	169	AP		B	120	2	HSX
	75	7	26	13766	S07 W87	167	1000	1.5									

MCMATH REGION 13780 CMP DATE 21.8

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	22	13780	N29 W09	142	100	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

MCMATH REGION 13771 CMP DATE 22.9

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	17	13771	N28 E69	129	100	1.5
75	7	18	13771	N29 E57	129	100	1.5
75	7	19	13771	N29 E43	129	100	1.0
75	7	20	13771	N29 E30	129	100	1.5
75	7	21	13771	N29 E18	128	100	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

MCMATH REGION 13782 CMP DATE 23.3

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	23	13782	N36 W03	122	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

MCMATH REGION 13775 CMP DATE 23.4

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	18	13775	N43 E65	121	100	1.0
75	7	19	13775	N41 E50	122	100	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

MCMATH REGION 13776 CMP DATE 24.0

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	19	13776	S04 E59	113	200	2.0
75	7	20	13776	S04 E44	115	200	1.5
75	7	21	13776	S04 E32	114	100	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

MCMATH REGION 13778 CMP DATE 25.5

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	20	13778	S11 E66	93	100	1.5
75	7	21	13778	S11 E52	94	200	1.0

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

MCMATH REGION 13781 CMP DATE 26.1

CALCIUM PLAGE DATA

YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT
75	7	22	13781	N02 E47	86	100	1.5

SUNSPOT DATA

MW NO.	LAT CMD	L	MAG.	H STA	AREA	CNT	CLASS

REGIONS OF SOLAR ACTIVITY

JULY 1975

MCMATH REGION 13783 CMP DATE 26.1

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	23	13783	N09 E37	82	400	3.5	19594	N10 E33	82	B		B	30	10	BXO
75	7								N08 E35				B	30	10	CRI
75	7	24	13783	N09 E23	84	600	3.0	19594	N10 E21	85	(B)	4	B	30	18	BXO
75	7	25	13783	N09 E08	86	600	3.0	19594	N09 E07	86	(B)	4	B	30	24	BXO
75	7	26	13783	N09 W06	86	1100	3.0	19594	N08 W10	87	(B)	4	B	50	21	DRI
75	7	27	13783	N09 W17	84	1200	3.0	19594	N08 W21	86	(BP)	4	B	100	20	DAI
75	7	28	13783	N09 W31	85	1200	3.0	19594	N10 W35	87	(BP)	4	B	140	12	DSO
75	7	29	13783	N09 W46	87	1400	2.5	19594	N10 W48	87	(BP)	4	B	120	4	CSO
75	7	30	13783	N10 W59	87	1300	2.5	19594	N09 W65	91	(AP)	4	B	110	5	CSO
75	7	31	13783	N10 W73	88	1100	2.5	19594	N09 W79	92	(BP	4	B	80	5	CSO
75	8	01	13783	N10 W87		600	1.5	19594	N09 W88							

MCMATH REGION 13789 CMP DATE 26.8

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	8	01	13789	N23 W75		100	1.5									

MCMATH REGION 13777 CMP DATE 27.7 RETURN OF REGION 13738 ROTATION 2

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	20	13777	N06 E88	71	300	1.0									
75	7	21	13777	N07 E78	68	1200	2.0	19593	N08 E76	69	(AP)	4	B	100	1	HSX
75	7	22	13777	N07 E68	65	2400	2.5	19593	N08 E63	68	(BP)	5	B	110	4	CSO
75	7	23	13777	N08 E54	65	2200	2.5	19593	N09 E48	67	AP		B	90	3	CSO
75	7	24	13777	N08 E41	66	2000	2.0	19593	N07 E37	69	(BP	5	B	80	1	HSX
75	7	25	13777	N08 E28	66	2100	1.5	19593	N07 E23	70	(AP)	5	B	50	2	HSX
75	7	26	13777	N08 E14	66	2000	2.0	19593	N07 E07	70	(AP)	4	B	60	1	HSX
75	7	27	13777	N07 E02	65	2200	2.0	19593	N07 W05	70	(AP)	4	B	50	3	HSX
75	7							19595	N10 E07	58	A					
75	7	28	13777	N07 W12	66	2000	3.0	19593	N09 W17	69	(BP)	4	B	40	7	HSX
75	7	29	13777	N07 W26	67	2000	2.0	19593	N08 W31	70	(AP)	4	B	30	3	CSO
75	7	30	13777	N07 W39	67	1700	1.5	19593	N08 W44	70	(AP)	3	B	30	1	HSX
75	7	31	13777	N09 W52	67	1500	1.5	19593	N08 W58	71	(AP)	4	B	10	1	HSX
75	8	01	13777	N08 W66		1400	1.5	19593	N09 W74		(AP)	1	B	20	1	AXX
75	8	02	13777	N08 W84		500	1.0									

MCMATH REGION 13785 CMP DATE 28.1

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	7	27	13785	S05 E07	60	100	1.0									
75	7	28	13785	S05 W06	60	100	1.0									

Note: Region 13738 has formed in the location of small plage 13709 of the previous rotation.
Calcium spectroheliograms were secured at the McMath-Hulbert Observatory and sunspot observations were made at Mt. Wilson Observatory on every day during the month of July 1975.

DAILY CALCIUM PLAGE INDEX

JULY 1975

YR	MO	DAY	INDEX	YR	MO	DAY	INDEX	YR	MO	DAY	INDEX
75	7	1	9.2	75	7	11	5.8	75	7	21	10.9
75	7	2	9.9	75	7	12	7.1	75	7	22	11.7
75	7	3	9.0	75	7	13	6.4	75	7	23	11.6
75	7	4	6.4	75	7	14	7.6	75	7	24	9.5
75	7	5	4.8	75	7	15	8.5	75	7	25	6.8
75	7	6	5.7	75	7	16	8.8	75	7	26	7.1
75	7	7	5.8	75	7	17	9.5	75	7	27	7.9
75	7	8	5.7	75	7	18	12.8	75	7	28	9.0
75	7	9	5.2	75	7	19	11.3	75	7	29	6.1
75	7	10	4.3	75	7	20	12.0	75	7	30	4.2
								75	7	31	4.7

* NO OBSERVATIONS

SUDDEN IONOSPHERIC DISTURBANCES

JULY 1975

DAY	UNIVERSAL TIME START	END	MAX	IMP	WIDE SPREAD INDEX	NUMBER OF STATION REPORTS BY TYPE SWF	SCNA	SEA	SPA	LF-SPA	SES	SFD	KNOWN FLARE	McMATH REGION
02	1627	1715	1633	1	5			2	1		5		1623	13738
10	2145	2153	2148	1-	1	1							*	
13	1131U	1218	1144	1-	1			1					1127	13750
13	1612	1715	1630	1+	5	5		5	4		12		1608	13750
15	0102	0145	0109	1-	1				1				0107E	13750
25	1837	1907	1852	1-	1	1							1833	13783
31	0106	0123	0112	1-	1	1							0104	13786
31	0845U	0915	0847	1-	1			1					0845	13783
31	1801	1830	1805	1-	5			2			7		1754	13786
31	2333	0024	2351	1-	1				1				2339E	13786

PERIODS OF NO OBSERVATIONS:

DATE	TIME (UT) and STATION
01	0000-2400 TN
02	0030-0110 UM (10 kHz), 0310-0405 UM (10 kHz), 0705-0800 UM (10 kHz)
03	0738-0913 UM (10 kHz), 1414-1430 TM, 1758-1802 TM
04-28	0000-2400 LO
04	0310-0421 UM (10 kHz), 0740-0955 UM (10 kHz), 1510-1540 UM (10 kHz)
05	0748-0840 UM (10 kHz), 0915-1049 UM (10 kHz)
06	1939-2145 UM (10 kHz)
07	0000-2400 A34, 0908-1203 UM (10 kHz), 1555-1559 TM, 1705-1750 UM (10 kHz), 1921-2200 UM (10 kHz)
08	0000-2400 A34, 0131-0220 UM (10 kHz), 1439-1530 UM (10 kHz), 1735-1843 UM (10 kHz), 1806-1840 TM, 2015-2400 UM (10 kHz)
09	0000-2400 TN, 0000-0044 UM (10 kHz), 0144-0415 UM (10 kHz), 0440-0600 UM (10 kHz), 1000-1225 UM (10 kHz), 1508-1602 UM (10 kHz), 1806-1840 UM (10 kHz), 2250-2400 UM (10 kHz)
10-13	0000-1355 TM
10	0000-0310 UM (10 kHz), 0423-1533 UM (10 kHz)
11	0003-0235 UM (10 kHz), 0935-1013 UM (10 kHz), 1727-1835 UM (10 kHz)
12	0400-0802 UM (10 kHz), 0919-1122 UM (10 kHz)
13	0935-1054 UM (10 kHz), 1210-1305 UM (10 kHz)
14	0020-0145 UM (10 kHz), 0930-1135 UM (10 kHz), 1200-1250 UM (10 kHz), 1435-1513 TM
15	0000-2400 TN, 0146-0410 Um (10 kHz), 0420-0655 UM (10 kHz), 0938-1205 UM (10 kHz), 1800-2000 SC, 2132-2157 TM
24	0743-1046 MC, 2230-2400 A21
25	0000-2400 TN, 0000-0015 A21, 1804-1822 TM, 2026-2106 TM
26	0000-2400 A30
28	2048-2052 TM
29	1954-2003 TM
30	0233-1128 MC, 2221-2400 TM
31	0000-1142 MC, 0000-2400 A30

STATIONS REPORTING FOR JULY 1975

AAVSO (A1, A4, A19, A21, A29, A30, A31, A32, A34, A35, A37, A40) (SES)
(A1, A26, A31) (SEA) (A31) (SWF)
AREQUIPA (AQ) (SPA)
DARMSTADT (DA) (SWF)
DEBRE ZEIT (DE) (SPA)
HERMANUS (HS) (SEA)
HERSTMONCEUX (HC) (SEA)
HIRAISO (HI) (SWF)
HOBART (TA) (SEA)
HUANCAYO (HU) (SWF)
INUBO (IN) (SPA)
KULA (KL) SPA)
KUHLUNGSBORN (KU) (SEA, SPA)
McMATH (MC) (SWF, SCNA)
NEUSTRELITZ (NU) (SWF)
PANSKA VES (PU) (SWF, SEA, SES)
POITIERS (PO) (SEA)
PRESTON (LO) (SEA)
SAO PAULO (UM) (SES, SPA)
SOFIA (SF) (SES)
ST CLOUD (SC) (SES)
TABLE MOUNTAIN (TM) (SPA, LF-SPA)
TORINO (TN) (SPA)
UPICE (UI) (SEA)

SID's BY McMATH REGION

JULY 1975

DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
REGION																															
38		1																													
50													2		1																
83																									1						1
86																															3
X-RAY																															
UNKNOWN										1																					
NO FF																															

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
01	0000	0230	BOUL				0000	0032.6	2	0000	0032.6	2	IV
			BOUL				0057.0	0059.5	2	0057.0	0059.5	2	III
	0000	1014	MANI							0057.5	0059.0	2	IIIG
			WEIS				0410	0532	1				IN
	0351	1006	WEIS				0427.6	0428.3	2				IIIG
			MANI							0428.3	0428.9	3	III
	0431	1835	DURN	0430 E	1835 D	2	0430 E	1835 D	2				IN,DC
			DURN	0503.3	0503.4	2							III
			DURN	0526.8	0526.9	1	0526.8	0526.9	3				III
			WEIS				0526.8	0527	2				IIIB
			DURN	0532.0	0532.2	3	0532.0	0532.2	2				IIIG
			WEIS				0536.5	0536.9	3				IIIB
			MANI							0536.8	0541.2	3	III
			WEIS				0539.8	0541.3	2				IIIG
			DURN	0616.4	0616.5	2	0616.4	0616.5	2				III
			DURN	0731.3	0731.5	2	0731.3	0731.5	2				IIIG
			DURN	0750.1	0750.3	2							III
			WEIS				0752.5	0752.8	1				IIIG
	0821	1530	DWIN			1	0821	1530	1				IS
			DWIN	1157.8	1158.0	1			1				IIIG
			DWIN	1404.0	1404.3	1	1404.0	1404.3	1				IIIG
	1130	2400	BOUL				1436.6	1437.0	1	1436.6	1437.0	1	III
	1011	1915	WEIS				1552.0	1552.1	1				IIIB
			BOUL				1638.0	1718.5	1	1638.0	1718.5	1	IIIN
			WEIS				1701.8	1701.9	1				IIIB
	0914	2420	SGMR							1701.9	1702.1	1	III
	1245	2246	HARV				1701	1702	1	1702		1	IIIG
			SGMR							1823.9	1824.5	1	III
			BOUL				1835.0	1837.0	2	1835.0	1837.0	2	III
			HARV				1835	1837	2	1836	1837	2	IIIGG
			BOUL				1935	2400	1	1935	2400	1	CONT
			BOUL				2224.6	2226.2	2	2224.6	2226.2	2	IIIG
			SGMR							2225.1	2226.0	1	III
			HARV				2225	2226	2	2225	2226	2	IIIG
			SGMR							2300.3	2300.7	1	III
	2134	2400	MANI							2300.4	2300.5	1	III
02	0000	0230	BOUL							0000	0200	1	CONT
	0000	1014	MANI							0254.9	0255.0	1	III
	0430	1818	DURN	0640	1818	2	0640	1818	2				I,N
	0340	1432	WEIS				0759.4	0800.8	2				IIIGG
			WEIS				0802.0	0803.9	2				IIIGG
			DURN	0802.6	0803.6	2	0759.8	0803.6	3				IIIGG
			WEIS				0823.7	0823.9	2				IIIG
			DWIN	0836	1510	1							IN
	0836	1510	DWIN			1	0836	1510	1				IS
			DWIN	1016.8	1016.9	1	1016.8	1016.9	1				IIIG
			DWIN				1025.6	1025.7	1				IIIG
	1130	2400	BOUL							1140	1615	1	CONT
			DWIN	1401.6		1							IIIB
			DWIN	1402.7	1403.3	2	1402.7	1403.3	2				IIIG
			WEIS				1402.7	1402.9	2				IIIG
			DURN	1402.8	1403.0	2	1402.8	1403.0	3				IIIG
	1440	1917	WEIS										
	1246	2246	HARV				1557		1				IIIG
			BOUL				1615	1819.5	1	1615	1819.5	1	CONT
			BOUL				1619.5	1622.8	3	1619.5	1622.8	3	IIIG
			HARV				1622	1627	3	1625	1627	3	IIIGG
	0914	2420	SGMR							1623.8	1627.0	3	IV
			DURN	1624.6	1625.0	3	1624.6	1625.0	3				IIIG,U
			DURN	1625.4	1627.2	1	1625.6	1627.2	2				CONT
			HARV				1632		2	1632		2	IIIG
			HARV				1634.1	1641	3	1635.4	1641	3	II
			BOUL				1634.4	1642.0	3	1634.4	1642.0	3	IIIG
			SGMR							1634.7	1641.3	3	IV
			HARV				1638	1641	3	1638	1641	3	H
			SGMR							1733.5	1736.8	1	I
			HARV				1733	1737	1	1733	1737	1	IIIG
			SGMR							1815.9	1818.0	1	I
			HARV				1816	1818	1	1816	1818	1	IIIG

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
02			BOUL				2010.0	2400	1	2010.0	2400	1	CONT
			HARV				2015	2053	2	2015	2053	2	IIIN
	2135	2400	MANI										
			BOUL				2250.0	2255.0	1	2250.0	2255.0	1	IIIGG
			BOUL				2300.0	2302.5	1	2300.0	2302.5	1	IIIG
03	0000	0230	BOUL							0030.0	0210.0	1	CONT
	0000	1014	MANI							0104.6	0104.8	2	III
			MANI							0149.8	0150.1	1	III
			MANI							0157.8	0158.3	3	III
			MANI							0330.3	0330.72	I	II
	0340	1917	WEIS				0357.2	0357.6	1				IIIG
			MANI							0357.3	0357.9	3	III
			MANI							0408.5	0408.7	2	III
	0429	1820	DURN				0429 E	1820 D	1				I,N
			WEIS				0608.3	0608.6	2				IIIG
			WEIS				0732.6	0733.7	1				IIIG
			WEIS				0736.5	0736.7	1				IIIB
			DURN	0751.3	0751.4	2	0751.3	0751.4	1				III
			WEIS				0751.5	0751.7	1				IIIG
			WEIS				0803.0	0803.3	1				IIIG
	0832	1515	DWIN	0907.9	0908.7	1	0907.9	0908.7	1				IIIGG
			DWIN				0917.2	0917.4	1				IIIG
			DWIN	0922	1000	1							IN
			DWIN				0947.4	0948.0	2				IIIG
			DWIN				1012.9	1014.0	2				IIIG
			WEIS				1013.5	1014.1	3				IIIG
	0915	2420	SGMR							1013.6	1014.2	2	III
			DWIN				1052.6		2				IIIB
			SGMR							1057.9	1146.2	1	IIIG
			DURN	1116.8	1117.0	2	1116.9	1117.0	1				IIIG
			DWIN	1117.0	1117.1	2	1116.9	1117.2	2				IIIG
			WEIS				1117.0	1117.2	2				IIIG
			WEIS				1145.8	1146.0	1				IIIB
			DWIN				1148.0		2				IIIB
			DWIN				1214.5	1214.9	1				IIIG
			DWIN				1223.5	1224.5	2				IIIG
			WEIS				1223.5	1224.4	1				IIIG
			SGMR							1227.9	1228.1	1	III
			DWIN				1248.6						IIIB
			DWIN	1459.0	1502.1	2	1459.0	1502.1	2				IIIGG
			DURN	1459.7	1501.8	3	1459.8	1501.7	2				IIIGG,U
			WEIS				1501.2	1502.0	2				IIIG
			DURN	1629.6	1629.6	2	1629.6	1629.6	2				III
			DURN	1729.5	1729.6								III
	1130	2400	BOUL				1746.6	1746.8	1	1746.6	1746.8	1	III
			BOUL				1757.5	1758.0	1	1757.5	1758.0	1	III
	1246	2245	HARV				1757	1758	3	1757	1758	3	IIIG
			BOUL				1826.7	1827.1	1	1826.7	1827.1	1	III
			BOUL				1843.9	1844.5	1	1843.9	1844.5	1	III
			HARV				1844		3	1844		3	IIIB
			BOUL				1922.5	1923.0	1	1922.5	1923.0	1	III
			BOUL				1957.2	1957.7	1	1957.2	1957.7	1	III
			BOUL				2126.0	2127.6	2	2126.0	2127.6	2	III
			HARV				2126	2127	2	2127		1	IIIGG
	2135	2400	MANI										
			BOUL				2247.0	2249.5	1	2247.0	2249.5	1	IIIG
			BOUL				2321.5	2324.9	1	2321.5	2324.9	1	IIIGG
04	0000	0230	BOUL										
	0000	1014	MANI										
	0431	1827	DURN	0447.7	0452.9	2	0448.1	0452.9	2				IIIGG
			DURN	0630	1706	1	0650	1706	1				I,N
	0915	2419	SGMR										
	1130	2400	BOUL										
	1246	2301	HARV										
	0833	1448	DWIN	1258.3	1258.5	1	1258.3	1258.5	1				IIIG
			DWIN	1305	1335	1	1305	1335	1				IS
	0640	1918	WEIS				1330	1815	1				IN
			DURN	1506.4	1508.2	2	1506.4	1506.9	2				IIIGG

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
04			DURN	1706	1827 D	3	1706	1827 D	3				I,DC
	2135	2400	MANI										
05	0000	1015	MANI										
	0000	0230	BOUL										
	0432	1110	DURN	0700	1110 D	2	0700	1110 D	2				I
	0344	1113	WEIS				0719	0725	1				IS
	0915	2419	SGMR										
	1246	2246	HARV				1246	1510	1				IN
	1400	2400	BOUL										
	1427	1825	DURN	1649	1825 D	1	1649	1825 D	1				I
			DURN	1822.7	1823.3	1							IIIG
	2135	2400	MANI										
06	0000	1015	MANI										
	0000	0230	BOUL										
	0433	1825	DURN										
	0916	2419	SGMR										
	1130	2400	BOUL										
	1246	2245	HARV										
	2135	2400	MANI										
07	0000	1015	MANI										
	0000	0230	BOUL				0114.5	0115.0	1	0114.5	0115.0	1	III
	0641	1914	WEIS										
	0433	1825	DURN	0750.4	0750.5	2							III
	0917	2419	SGMR										
	1246	2246	HARV										
	1130	2400	BOUL				1905.0	1909.4	2	1905.0	1909.4	2	IIIG
	2135	2400	MANI										
08	0000	1015	MANI										
	0000	0230	BOUL										
	0342	1128	WEIS										
	0434	1825	DURN										
	1145	1915	WEIS										
	1130	2400	BOUL				1236.6	1237.2	1	1236.6	1237.2	1	III
	0918	2418	SGMR							1236.9	1237.2	1	III
			BOUL				2127.5	2130.0	2	2127.5	2130.0	2	IIIG
	1245	2246	HARV				2127	2129	3	2127	2129	3	IIIG,V
			SGMR							2128.0	2129.1	2	III
	2135	2400	MANI										
09	0000	1015	MANI										
	0000	0230	BOUL										
	0351	1854	WEIS										
	0434	1701	DURN										
	0919	2418	SGMR										
	1130	2400	BOUL										
	1428	2246	HARV										
	2135	2400	MANI										
10	0000	1003	MANI										
	0000	0230	BOUL										
	0617	1530	DURN										
	0656	1914	WEIS										
	0919	2417	SGMR										
	1246	2246	HARV										
	1130	2400	BOUL				1413.8	1414.5	1	1413.8	1414.5	1	III
			BOUL				1918.6	1919.1	1	1918.6	1919.1	1	III
	2136	2400	MANI										
11	0000	1016	MANI										
	0000	0230	BOUL										
	0350	1052	WEIS				0738.3	0739.9	2				IIIGG
	0639	1830	DURN	0739.5	0740.2	2	0739.3	0741.2	3				IIIG
			WEIS				0740.9	0741.3	2				IIIG
			WEIS				0816.8	0817.0	1				IIIB
	0920	2417	SGMR										
	1057	1911	WEIS										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
11	1130	2400	BOUL										
	1245	2246	HARV										
			DURN	1645.0	1645.7	2	1643.3	1646.0	2				IIIGG
	2136	2400	MANI										
12	0000	0341	MANI										
	0000	0230	BOUL										
	0420	1017	MANI										
	0348	1606	WEIS				0452.8	0458.2	2				IIIGG
	0436	0840	DURN	0454.1	0458.3	2	0453.5	0458.3	2				IIIGG
			WEIS				0507.1	0507.5	3				IIIG
			WEIS				0509.5	0509.7	1				IIIG
			DURN	0509.9	0510.0	1	0509.9	0510.0	1				IIIG
			WEIS				0757.3	0757.7	1				IIIG
	0901	1825	DURN	1107.9	1109.2	2	1107.9	1109.3	2				IIIG
			WEIS				1117.7	1118.5	3				IIIG
	0921	2416	SGMR							1117.8	1118.4	2	III
	1247	2246	HARV										
			WEIS				1339.6	1339.9	3				IIIG
			DURN				1339.7	1339.9	2				IIIG
	1758	1914	WEIS										
	1930	2400	BOUL										
	2137	2400	MANI										
13	0000	1017	MANI										
	0000	0230	BOUL										
	0351	1916	WEIS				1040.6	1041.6	3				IIIG
	0437	1825	DURN	1040.7	1040.8	2	1040.7	1040.8	2				III
	0921	2416	SGMR							1040.8	1041.1	1	III
			WEIS				1107.4	1107.6	1				IIIG,RS
	1130	2400	BOUL										
	1246	2246	HARV										
	2137	2400	MANI										
14	0000	1015	MANI										
	0000	0230	BOUL										
	0353	0642	WEIS				0431	0454	1				IS
	0437	1647	DURN	0437 E	1520	1	0437 E	1520	1				I,N
	0754	1907	WEIS										
	0922	2415	SGMR										
			DURN	1048.7	1051.4	1							CONT
	1130	2400	BOUL										
	1246	2246	HARV										
	2137	2400	MANI										
15	0000	1015	MANI										
	0000	0230	BOUL										
	0354	1140	WEIS										
	0556	0639	DURN										
	0923	2415	SGMR										
	1130	2400	BOUL										
	1146	1901	WEIS										
	1246	2245	HARV										
	2138	2400	MANI										
16	0000	1017	MANI										
	0000	0230	BOUL										
	0350	1621	WEIS										
	0924	2414	SGMR										
	1130	2400	BOUL										
	1246	2245	HARV										
	1558	1825	DURN										
	1626	1906	WEIS										
	2138	2400	MANI										
17	0000	1017	MANI										
	0000	0230	BOUL										
	0357	1905	WEIS										
	0438	1825	DURN										
	0925	2413	SGMR										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
17	1130	2400	BOUL										
	1246	2246	HARV										
	2137	2400	MANI										
18	0000	1017	MANI										
	0000	0230	BOUL										
	0356	0612	WEIS										
	0439	1825	DURN										
	0640	1906	WEIS										
	0926	2413	SGMR										
	1130	2400	BOUL										
	1246	2246	HARV										
	2138	2400	MANI										
19	0000	1017	MANI										
	0000	0230	BOUL										
	0356	1146	WEIS										
	0439	1825	DURN										
	0927	2412	SGMR										
	1130	2400	BOUL										
	1246	2245	HARV										
	1655	1907	WEIS										
	2138	2400	MANI										
20	0000	1016	MANI										
	0000	0230	BOUL										
	0400	1909	WEIS										
	0440	1156	DURN										
	0927	2411	SGMR										
	1130	2400	BOUL										
	1246	2245	HARV										
	1519	1825	DURN										
	2138	2400	MANI										
21	0000	0544	MANI										
	0000	0230	BOUL										
	0402	0555	WEIS										
	0635	1016	MANI										
	0643	1901	WEIS				0756.1	0756.2	1				IIIB
	0441	1830	DURN	0756.2	0756.3	3	0756.2	0756.3	3				IIIG
	0928	2410	SGMR										
			DURN	1020	1830 D	2	1020	1830 D	2				I
	1130	2400	BOUL										
			DURN	1149.9	1150	2							III
	1246	2245	HARV										
	2138	2400	MANI										
22	0000	1016	MANI										
	0000	0230	BOUL										
	0403	1149	WEIS										
	0442	1830	DURN	0442 E	1830 D	2							I,N
	0929	2410	SGMR										
	1130	2400	BOUL										
	1215	1901	WEIS										
	1246	2245	HARV										
	2213	8240	MANI										
23	0000	1016	MANI										
	0000	0230	BOUL										
	0403	1728	WEIS				0525.2	0525.4	1				IIIB,U
	0442	1830	DURN	0525.3	0525.4	1							III
			WEIS				0541.0	0541.5	1				IIIG
			DURN	0750	1830 D	2	1600	1830 D	2				I,N
	0930	2409	SGMR										
			DURN	0951.0	0951.1	2							III
	1200	2400	BOUL										
	1245	2246	HARV										
	2138	2400	MANI										
24	0000	0420	MANI										

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
24	0000	0230	BOUL										
	0449	1015	MANI										
	0442	1203	DURN	0530	0750	2	0530	0750	2				I
	0643	1855	WEIS				1436.0	1438.9	1				IIIG
	0931	2408	SGMR							1436.8	1441.2	1	IIIG
	1200	2400	BOUL				1436.9	1447.0	1	1436.9	1447.0	1	III
	1246	2245	HARV				1437	1447	1				I
			BOUL				1445.8	1457.5	2	1453.5	1458.4	2	II
			BOUL				1446.5	1455.5	2	1446.5	1455.5	2	II
			SGMR							1446.7	1455.3	2	II
			WEIS				1446.7	1457.0	2				II
			HARV				1446.9	1455	2	1450	1453	1	II
			SGMR							1453.8	1457.5	1	II
	1544	1830	DURN										
	2139	2400	MANI										
25	0000	0736	MANI										
	0000	0230	BOUL										
	0410	1147	WEIS										
	0443	1830	DURN										
	0747	1015	MANI										
	1203	1855	WEIS										
	1246	2245	HARV										
	1200	2400	BOUL				1307.4	1308.3	2	1308.4	1308.3	2	IIIG
	0932	2407	SGMR							1307.8	1308.1	1	III
	2140	2400	MANI										
26	0000	1015	MANI										
	0000	0230	BOUL										
	0415	1745	WEIS				0829.5	0830.5	1				IIIG
	0442	1832	DURN	0830	1832 D	1	0830	1832 D	1				I,N
	0933	2406	SGMR										
	1246	2246	HARV				1808	1831	1				IN
	1200	2400	BOUL				1809.2	1830.9	1	1809.2	1830.9	1	CONT
	2140	2400	MANI										
27	0000	1015	MANI										
	0000	0230	BOUL										
	0442	1836	DURN	0442 E			0442 E						I
			DURN	0850.0	0850.4	3	0850.2	0850.3	2				IIIG
	0934	2405	SGMR										
	1200	2400	BOUL										
	1246	2245	HARV				1246	1346	1				I
			DURN	1433.0	1433.4	3	1433.0	1433.4	2				IIIG
			DURN	1501.6	1501.7	2							IIIG
			DURN	1637.8	1637.9	3							III
			DURN	1654.7	1655.0	2	1654.7	1655.0	3				IIIG
	1530	1857	WEIS				1654.7	1655.1	2				IIIG
			WEIS				1701.3	1701.4	1				IIIB
			DURN	1701.3	1701.4	3	1701.3	1701.4	2				III
			WEIS				1745.7	1746.0	1				IIIG
			DURN	1802.3	1804.1	3	1803.5	1804.0	3				IIIGG
			WEIS				1803.5	1804.1	2				IIIG
			HARV				1803	1804	1				IIIG
			DURN	1809.1	1811.0	3	1809.3	1809.4	2				IIIG
			HARV				1809	1826	1				IIIN
			DURN	1822.3	1826.0	3	1822.3	1826.3	3				IIIGG
			DURN	1826.5	1836 D	3	1826.5	1836 D	3				IV
			HARV				1937	2126	1				IN
	2140	2400	MANI										
28	0000	1015	MANI										
	0000	0230	BOUL							0109	0112	1	CONT
	0419	0557	WEIS				0440	0557	1				IS
	0443	1415	DURN	0443 E	1415 D	3	0443 E	1415 D	3				I,DC
	0635	1401	WEIS				0635	0845	2				IS
			DURN	0917.4	0917.6	3	0917.4	0917.6	3				IIIG
			DURN	0938.5	0938.6	3							III
			DURN	1132.5	1132.8	3	1132.5	1132.8	3				IIIG
	1200	2400	BOUL				1257.2	1257.6	1	1257.2	1257.6	1	III

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
28	1408	1847	WEIS				1535	1750	2				IS
	0935	2404	SGMR							1800.8	1801.1	1	III
			BOUL							1830	2115	1	CONT
			SGMR							1901.4	1911.1	1	IIIG
			BOUL				1910.0	1950.0	1	1910.0	1950.0	1	IIIN
	1245	2245	HARV				1910	1911	2	1910	1911	2	IIIG
			BOUL				2038.0	2038.5	1	2038.0	2038.5	1	IIIG
			SGMR							2038.2	2038.5	2	III
			HARV				2038		3	2038		3	IIIG
			SGMR							2101.4	2101.5	1	III
	2141	2400	MANI										
			BOUL							2247.0	2247.6	1	III
			BOUL							2353.0	2353.5	1	III
			BOUL							2355.6	2358.7	1	III
29	0000	0316	MANI										
	0000	0230	BOUL							0002.2	0003.1	1	IIIG
			BOUL				0024.5	0025.0	1	0024.5	0025.0	1	III
			BOUL				0117.0	0117.5	1	0117.0	0117.5	1	III
	0350	0523	MANI										
	0444	1834	DURN	0444 E	1834 D	3	0530	1834 D	1				I,DC
	0415	1850	WEIS				0743.8	0744.6	2				IIIG
	0538	1016	MANI							0743.9	0744.1	2	III
			WEIS				0942.0	0942.4	1				IIIG
			WEIS				1001.1	1002.5	1				IIIG
			WEIS				1021.5	1021.7	1				IIIB
			DURN	1210.5	1210.8	2	1210.5	1210.8	2				IIIG
	1200	2400	BOUL				1210.5	1211.4	1	1210.5	1211.4	1	IIIG
			WEIS				1210.6	1211.2	2				IIIB
	0936	2403	SGMR							1210.7	1211.8	1	V
			WEIS				1217.8	1221.6	3				IIIGG
			SGMR							1217.9	1223.3	3	IV
			BOUL				1218.1	1222.3	2	1218.1	1222.3	2	IIIG
			DURN	1219.0	1221.5	3	1218.9	1221.5	3				IIIGG
			BOUL							1222	1320	1	CONT
			SGMR							1239.9	1240.1	1	III
			SGMR							1435.4	1435.8	2	V
			WEIS				1435.4	1435.6	2				IIIG
			BOUL				1435.5	1436.0	1	1435.5	1436.0	1	III
			DURN	1639.2	1639.3	2							U
			SGMR							1724.8	1725.2	1	III
			BOUL							1724	2400	2	CONT
	1246	2245	HARV				1725	1813	2	1725	1813	2	IIIN
			SGMR							1746.2	1825.0	1	IIIG
			HARV				1757	1758	2	1757	1758	2	IIIG
			SGMR							1800.2	1801.0	2	V
			HARV				1800	1802	3	1800	1802	3	IIIG,V
			SGMR							1806.7	1807.7	2	V
			BOUL				1806.9	2400	2	1806.9	2400	2	IIIN
			WEIS				1806.9	1807.4	2				IIIG
			HARV				1807	1810	3	1807	1810	3	IIIG,V
			WEIS				1809.0	1809.3	1				IIIB
			HARV				1824	1827	1	1824	1827	1	IIIG
			SGMR							1941.3	1941.8	2	V
			HARV				1941	1942	3	1941	1942	3	IIIG
			SGMR							2003.7	2003.9	1	III
			SGMR							2007.5	2140.1	1	CONT
			SGMR							2127.0	2127.8	1	V
			BOUL				2127.0	2128.4	2	2127.0	2128.4	2	IIIG
			HARV				2127	2128	3	2127	2128	3	IIIG
	2141	2400	MANI										
30	0000	1016	MANI										
	0000	0230	BOUL				0000	0057.0	2	0000	0057.0	2	CONT
	0416	0455	WEIS										
	0445	1836	DURN	0445 E	1836 D	3	0445 E	1836 D	2				I,DC
	0642	1840	WEIS				0642	1750	1				IN
	0937	2402	SGMR										
	1246	2245	HARV										
	1200	2400	BOUL				1309.0	1355.0	1	1309.0	1355.0	1	CONT

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JULY 1975

JUL 1975	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
30			BOUL				1503.0	1504.0	1	1503.0	1504.0	1	III
	2141	2400	MANI										
			BOUL				2242.5	2243.1	1	2242.5	2243.1	1	III
			BOUL				2321.0	2321.5	1	2321.0	2321.5	1	III
			BOUL				2323.1	2323.5	1	2323.1	2323.5	1	III
31	0000	0230	BOUL										
	0000	0355	MANI										
	0416	1209	WEIS										
	0446	1836	OURN	0446 E	1836 D	2	0446 E	1836 D	1				I
	0938	2401	SGMR										
	1216	1848	WEIS										
	1246	2245	HARV										
	1200	2400	BOUL				1302.2	1303.5	1	1302.2	1303.5	1	III
			BOUL				2043.6	2043.9	1				III
	2141	2400	MANI										
			BOUL							2222.5	2223.0	1	III

The symbols used in connection with the spectral type in describing the important bursts are as follows:

B = Single burst
G = Small group (< 10) of bursts
GG = Large group (> 10) of bursts
C = Underlying continuum (particularly with type I)
S = Storm in the sense of intermittent but apparently connected activity
N = Intermittent activity in this period
U = U-shaped burst of Type III
RS = Reverse slope burst
DP = Drifting pairs
DC = Drifting Chains
H = Herringbone
W = Weak
P = Pulsations
CONT = Continuum
UNCLF = Unclassified activity

SELECTED SOLAR EVENTS

JULY 1975

Culgoora

UT Date 197.5 JULY	HELIOGRAPH EVENT							Spectral Type	REMARKS
	Start (UT)	End (UT)	Freq. (MHz)	Positions: Central Dist. ($R_\odot$)	Positions: Position Angle (Deg.)	Polarization	Intensity (1-3)		
1.	0054	0100	80	0.9	290	0	‡	IIIG,V	
			43.25	1.3	320	-			
	0427	0429	43.25	1.3	320	-		IIIGG,V,U	
				0.7	250				
2.	0144	0145	160	0.4	290	0			
			80	0.7	290	0		IIIG	*
			43.25	1.0	290	-			
3.	0157	0159	160	0.8	260	0			
			80	1.0	270	0		IIIG,V	*
			43.25	1.3	290	-			
23.	0356	0357	160	0.7	70	0		III	
			80	0.9	60	0			
29.	0029	0030	160	0.7	290	0			
			80	1.1	300	0		IIIG	*
			43.25	1.6	320	-			
30.	0056	0057	160	0.8	300	0			
			80	1.2	300	0		IIIG	*
			43.25	1.7	320	-			

Days without Heliograph observations: .....NIL.....

* Other type III's observed at same position during day.

‡ Because of equipment modifications which are in progress, intensity classifications are not available for this month. An indication of intensities can be obtained from the corresponding entries in "Solar Radio Emission - Spectral Observations".

COSMIC RAY INDICES

(Neutron Monitors)

JULY 1975

JULY 1975	THULE Average cts/hr	ALERT Average cts/hr	DEEP RIVER Average cts/hr	CALGARY Average cts/hr	SULPHUR MT Average cts/hr	KIEL Average cts/hr	CLIMAX Average cts/hr	TOKYO Average cts/hr
1	4670.0	7599.4	7096.2			6394.7	4278.3(38)	3548.7
2	4660.6	7573.2	7080.5			6375.4	4275.0(32)	3557.1
3	4666.8	7572.2	7107.3			6394.9	4292.9	3555.0
4	4646.8	7553.0	7107.3			6393.8	4282.8	3546.5
5	4649.2	7556.3	7110.2			6405.2	4282.1	3545.2
6	4659.8	7580.2	7116.6			6408.7	4286.5	3548.1
7	4609.1	7525.6	7015.4			6335.9	4225.0	3543.8
8	4607.8	7518.6	7079.5			6408.7	4311.5	3568.8
9	4600.2	7519.9	7054.9			6387.2	4268.6	3546.2
10	4601.7	7503.2	7067.8			6380.6	4263.4	3535.1
11	4608.4	7536.7	7062.7			6384.0	4248.7	3535.5
12	4642.8	7570.8	7072.7			6386.2	4267.2	3530.7
13	4631.9	7557.9	7072.8			6379.6	4287.2(32)	3536.3
14	4609.7	7532.7	7027.0			6357.0	4260.7	3532.8
15	4624.5	7550.1	7029.3(7)			6371.7	4255.9	3540.6
16	4607.3	7525.8	-- (0)			6352.7	4243.0	3530.4
17	4585.6	7474.3	6983.4(12)			6319.2	4228.1	3531.9
18	4597.2	7477.3	6996.4			6325.3	4221.8	3542.2
19	4632.9	7557.0	7037.1			6347.5	4241.6	3554.7
20	4657.2	7596.6	7075.8			6374.8	4268.2	3555.9
21	4644.7	7574.2	7080.2			6373.4	4259.4	3552.2
22	4632.5	7557.7	7090.5			6371.7	4269.1	3552.7
23	4612.8	7522.7	7054.9			6362.0	4262.9(28)	3555.4
24	4662.3	7594.7	7087.5			6402.8	4278.2	3560.3
25	4662.3	7602.4	7087.7			6392.9	4282.1	3570.6
26	4618.7	7509.7	7022.8			6325.1	4243.1	3551.7
27	4602.5	7518.9	7003.5			6316.0	4232.1(16)	3541.2
28	4588.6	7495.7	6997.3			6295.7	-- (0)	3535.0
29	4584.6	7489.3	7011.9			6309.4	-- (0)	3542.3
30	4599.8	7484.4	6991.0			6310.0	4234.1(22)	3548.1
31	4597.8	7499.9	7001.3			6297.6	4207.0(2)	3547.6
MEAN	4625.0	7539.7	7054.0			6362.6	4260.6	3546.5

Data not available at time of publication

Data not available at time of publication

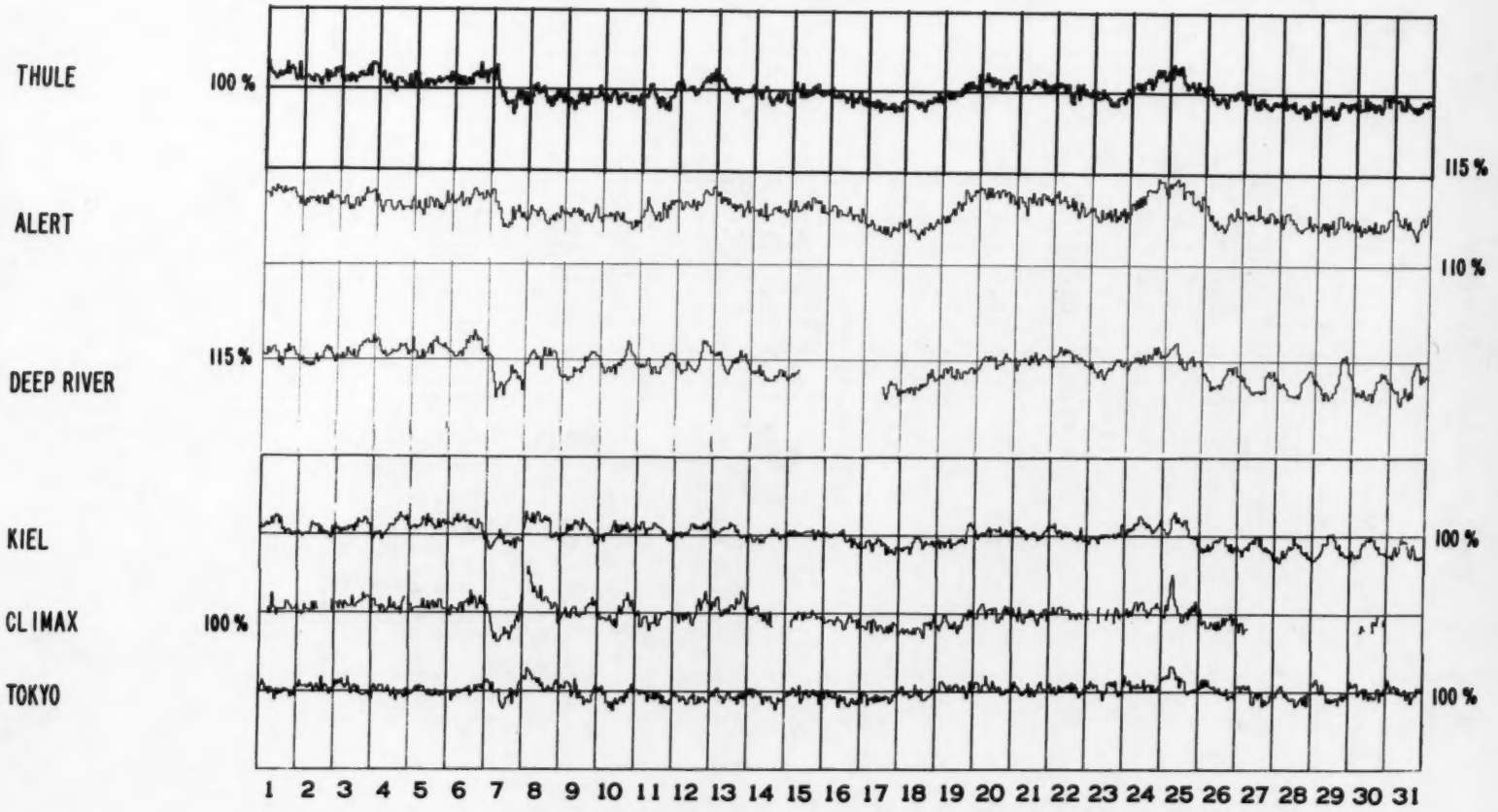
( ) Number of hours for which data are available if less than 24. Number of Section Hours at Climax if sum of both sections is less than 40 hours.

Thule, Alert, Calgary, Sulphur Mountain, Kiel and Climax Scaling Factors = 100.
Deep River Scaling Factor = 300.
Tokyo Scaling Factor = 128.

COSMIC RAY INDICES

(Neutron Monitors)

JULY 1975

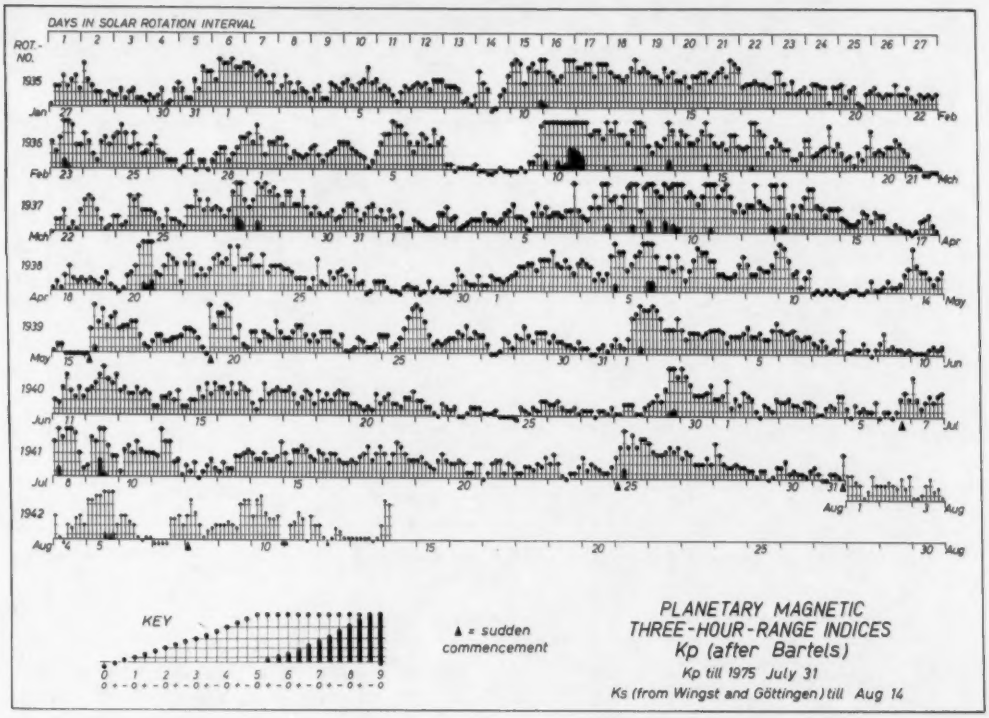


GEOMAGNETIC ACTIVITY INDICES

JULY 1975

Day	Three-Hour Range Indices Kp									Prel Ci	Cp	Ap	aa				
	1	2	3	4	5	6	7	8	Sum				N	S	M		
1	2+	2+	3-	4	1+	2+	2-	3	20-	0.7	0.7	12	21	31	31	21	
2	3-	2+	1	0+	2-	1+	1	2+	13-	0.2	0.3	6	17	13	15	16	
3	2	2	2+	2-	2-	1+	2	2	15	0.3	0.3	7	18	12	13	17	
4	2-	1-	1-	1+	2-	1+	3-	3-	13-	0.2	0.3	6	16	10	9	17	KK
5QQ	1+	0+	2-	1	1+	1	1	2	10-	0.1	0.2	5	15	7	10	12	CC
6 Q	0+	1	1	0+	1	2+	3	2+	11+	0.2	0.3	6	14	11	8	18	C
7	4+	2+	1+	2	3-	2	3-	3	20+	0.8	0.7	12	26	23	27	22	
8 D	4	6	4+	5	5	5-	3	1+	33+	1.4	1.4	37	37	55	55	36	
9 D	2-	4+	4	7-	5+	4-	3-	3-	31	1.3	1.4	35	46	49	48	47	
10	1	3+	4-	3	4	3+	3	3	24+	1.0	0.9	17	31	31	27	35	
11 D	3	3-	5	4	4	2	2+	1-	24-	1.1	1.0	18	28	45	46	28	
12QQ	2-	1	2	0+	1	2-	2+	1+	11+	0.3	0.2	5	15	10	9	16	C
13	1	2	1+	1+	3-	3-	3	3+	17+	0.6	0.5	10	20	15	9	26	
14	3	2+	2+	3	2+	2+	3-	4	22	0.8	0.8	13	32	25	24	33	
15	3	2	3+	3+	4-	3+	3-	2+	24-	0.9	0.8	15	32	25	24	34	
16	3+	3	2+	3	3	2+	2	2	21	0.8	0.7	12	23	27	27	23	
17	2+	2	3-	3	4-	2+	3	4-	23-	0.9	0.8	14	33	23	25	32	
18	3	2	3	4	4-	3	2+	2+	23+	0.8	0.8	15	26	31	29	28	
19	2+	3-	2	2-	1+	2+	3	2+	18-	0.5	0.5	9	19	18	16	22	
20	2	2	2+	2	1	1	2	2	14+	0.3	0.3	6	15	13	18	10	
21 Q	0+	1	2	2+	2+	1	2	2-	13-	0.3	0.3	6	15	14	10	20	K
22 Q	1	1	2-	2-	1+	2	2-	3-	13	0.2	0.3	6	17	11	11	17	
23 Q	2	3	2	1-	0+	1	1	2-	12-	0.2	0.3	6	15	10	15	11	C
24 Q	3-	1+	2	2-	1+	1	1	2-	13-	0.3	0.3	6	15	11	16	11	K
25 D	3-	4-	6	4-	5-	4-	4+	4+	33	1.5	1.3	33	47	61	55	53	
26 D	4	3+	3	3	3+	4-	3+	4-	27+	1.1	1.0	19	36	44	35	45	
27	3-	3+	3	2	2	2	3-	2	20-	0.7	0.6	11	21	23	26	19	
28	4	3	2	2-	2-	2	2-	2-	18-	0.6	0.6	10	23	23	24	23	
29QQ	1+	1+	1-	1+	1+	0+	1-	2-	9-	0.1	0.1	4	12	9	10	12	C
30QQ	2-	2+	1	1+	1	1	1-	1+	10+	0.1	0.2	5	10	13	14	10	CC
31QQ	2-	1	0+	0+	1	1	1-	3	9	0.2	0.2	5	13	6	8	11	CC
									MEAN	0.60	0.58	12	22.9	22.5	22.8		

GEOMAGNETIC ACTIVITY INDICES


DAYS IN SOLAR ROTATION INTERVAL
ROT.-NO.
1935 Jan Feb
1936 Feb Mch
1937 Mch Apr
1938 Apr May
1939 May Jun
1940 Jun Jul
1941 Jul Aug
1942 Aug Aug
KEY
0 1 2 3 4 5 6 7 8 9
0+ - 0+ - 0+ - 0+ - 0+ - 0+ - 0+ - 0+ - 0+ - 0
▲ = sudden commencement
PLANETARY MAGNETIC
THREE-HOUR-RANGE INDICES
Kp (after Bartels)
Kp till 1975 July 31
Ks (from Wingst and Göttingen) till Aug 14

DAILY AVERAGE INDICES Ap

DAY	1974 AUG	SEP	OCT	NOV	DEC	1975 JAN	FEB	MAR	APR	MAY	JUN	JUL
1	6	24	28	6	6	7	37	21	7	6	24	12
2	22	32	30	5	15	4	23	10	5	16	28	6
3	35	16	12	6	15	7	12	11	6	19	12	7
4	24	20	8	3	9	32	10	9	7	14	11	6
5	21	19	10	5	7	27	17	30	10	34	12	5
6	20	14	11	10	4	26	8	20	15	35	11	6
7	22	12	6	7	8	44	15	3	25	22	6	12
8	16	7	10	21	13	36	8	2	32	14	4	37
9	16	5	39	39	42	7	11	8	52	16	5	35
10	16	6	10	10	20	6	38	80	35	19	4	17
11	10	4	6	48	21	4	36	53	34	2	14	18
12	5	6	17	70	18	4	35	37	27	3	27	5
13	6	16	86	36	22	32	27	29	29	6	14	10
14	5	9	30	38	13	33	25	29	21	14	8	13
15	4	73	50	10	14	15	21	20	7	3	13	15
16	6	88	68	16	8	21	30	27	6	28	17	12
17	6	3	47	14	18	29	14	13	5	14	12	14
18	10	19	43	8	28	22	15	17	6	7	12	15
19	40	34	29	14	27	10	11	11	5	15	12	9
20	46	35	41	22	21	10	8	14	25	23	6	6
21	39	43	10	24	19	6	8	3	23	12	9	6
22	37	24	15	18	14	8	7	6	15	11	5	6
23	36	15	5	16	17	12	32	13	25	8	4	6
24	26	26	38	26	14	10	17	14	17	5	3	6
25	13	30	22	19	12	5	20	8	8	14	4	33
26	7	38	28	17	12	5	9	17	9	18	5	19
27	18	25	25	9	21	14	5	34	5	10	4	11
28	20	14	29	6	12	12	12	38	3	5	4	10
29	31	16	18	3	11	6		22	2	11	26	4
30	17	21	12	2	6	7		10	6	6	22	5
31	21		8		14	16		13		4		5
MEAN	19	23	26	18	15	16	18	20	16	13	11	12

HOURLY EQUATORIAL Dst VALUES (PROVISIONAL)

JULY 1975

NASA/GODDARD SPACE FLIGHT CENTER

(Time-UT) (Units-Gammas)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	-15	-10	-9	-11	-12	-15	-13	-10	-11	-13	-13	-14	-14	-17	-17	-19	-17	-11	-5	-3	-2	-8	-6	-10
2	-13	-8	-8	-8	-9	-11	-9	-6	-4	-2	-5	-7	-7	-5	-3	-5	-4	-3	-5	-7	-1	2	-4	-2
3	-3	0	-1	-3	-3	-3	2	1	-2	-1	-1	-2	0	-2	-3	-3	-2	-5	-11	-12	-10	-4	-6	-4
4	-1	-1	-4	-5	-6	-6	-4	-2	-2	-3	-4	-4	-2	0	-1	-2	0	-2	-5	-7	-2	-3	-5	-3
5	1	4	3	0	1	-2	-3	-4	-5	-4	3	4	-1	-4	-2	4	7	6	4	3	3	2	2	-1
6	1	4	4	6	6	7	7	9	8	9	8	9	11	11	12	11	6	12	19	21	12	8	10	12
7	4	4	8	8	3	-8	-3	-4	-2	-2	-4	1	8	7	0	-2	-4	-10	-19	-25	-30	-37	-41	-42
8	-42	-40	-47	-55	-64	-67	-62	-59	-57	-49	-45	-39	-42	-33	-31	-38	-53	-47	-46	-39	-36	-32	-32	-28
9	-25	-21	-21	-26	-34	-34	-36	-30	-21	-37	-44	-33	-18	-20	-32	-34	-33	-34	-44	-49	-46	-33	-30	-31
10	-28	-28	-27	-23	-23	-28	-21	-21	-19	-20	-16	-12	-10	-9	-18	-17	-21	-24	-31	-32	-29	-26	-26	-22
11	-21	-16	-15	-10	-4	5	-2	-14	-12	-2	-6	-8	-9	-15	-19	-21	-22	-22	-24	-23	-21	-18	-19	-19
12	-17	-13	-9	-9	-9	-9	-12	-15	-14	-16	-17	-15	-12	-13	-15	-14	-11	-13	-14	-12	-9	-7	-9	-10
13	-9	-8	-10	-7	-7	-11	-9	-5	-6	-9	-12	-13	-14	-15	-16	-14	-12	-14	-19	-17	-19	-18	-21	-24
14	-21	-17	-16	-14	-15	-16	-15	-10	-7	-5	-9	-8	-4	-4	-5	-7	-3	-4	-7	-7	-7	-13	-20	-18
15	-16	-7	-9	-9	-7	-7	-10	-15	-12	-12	-10	-16	-20	-21	-18	-18	-16	-24	-31	-27	-19	-14	-12	-9
16	-11	-10	-12	-10	-10	-10	-9	-8	-8	-10	-12	-18	-18	-16	-11	-9	-11	-14	-19	-19	-12	-12	-12	-12
17	-11	-9	-11	-11	-13	-14	-15	-15	-13	-16	-16	-16	-21	-19	-15	-15	-14	-13	-12	-6	-5	-6	-8	-7
18	-4	-1	-1	-2	-4	-11	-12	-7	-6	-6	-9	-12	-9	-8	-8	-13	-13	-16	-19	-17	-15	-12	-8	-5
19	-5	-3	-2	-3	-10	-12	-10	-9	-6	-4	-5	-5	-5	-6	-5	-4	-7	-12	-18	-23	-22	-20	-15	-11
20	-9	-5	-6	-7	-9	-12	-11	-12	-15	-10	-9	-8	-8	-9	-12	-9	-9	-12	-18	-18	-12	-10	-12	-9
21	-7	-3	-1	-2	-2	-2	-1	1	1	2	-4	-5	-3	-2	0	0	1	0	-4	-5	-8	-10	-13	-10
22	-6	-3	-3	-6	-5	-6	-10	-12	-8	-2	-1	-3	-2	0	3	2	3	-1	-5	-3	0	0	1	-1
23	1	5	9	-1	-6	-9	-6	-3	-3	-1	-6	-10	-10	-9	-11	-9	-8	-8	-10	-10	-5	-1	0	-4
24	-5	-2	2	4	3	1	-4	-9	-10	-9	-9	-9	-7	-7	-6	-4	-2	-3	-5	-4	-4	-2	2	0
25	3	12	15	8	10	-10	-39	-58	-56	-33	-27	-29	-38	-39	-55	-49	-40	-38	-44	-49	-52	-47	-42	-34
26	-29	-28	-24	-26	-27	-29	-26	-24	-25	-30	-26	-23	-18	-18	-19	-24	-24	-23	-24	-24	-28	-23	-15	-13
27	-15	-13	-13	-14	-16	-16	-13	-14	-16	-13	-15	-10	-6	-4	-6	-8	-8	-6	-9	-7	-5	-9	-11	-8
28	-8	-7	-10	-12	-12	-16	-15	-16	-15	-13	-12	-11	-6	-5	-3	-6	-9	-15	-18	-18	-16	-15	-11	-9
29	-9	-8	-7	-10	-10	-13	-13	-12	-12	-9	-10	-10	-10	-8	-7	-7	-6	-5	-7	-7	-5	-4	-7	-10
30	-12	-11	-13	-14	-14	-9	-7	-6	-6	-5	-7	-10	-10	-7	-8	-13	-15	-15	-17	-18	-13	-11	-8	-4
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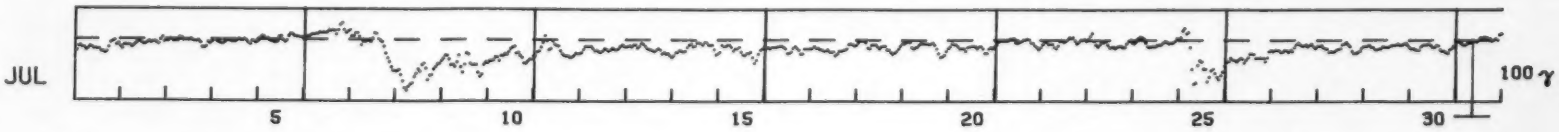


PRINCIPAL MAGNETIC STORMS

JULY 1975

OBS. 2 letter IAGA code	GEOMAG-NETIC LATI-TUDE	COMMENCEMENT DAY	hr min (UT)	TYPE	SC - AMPLITUDES D(')	H(γ)	Z(γ)	MAXIMUM 3 HOUR - INDEX K DAY(3 HOUR PERIOD)	K	RANGES D(')	H(γ)	Z(γ)	UT END DAY	HOUR
NE	55.1N	6	12--	..	..	..	..	08(3) 09(2,4) 11(3)	6	57	259	486	11	18
WI	54.2N	6	1723	SC*	- 2	+43	0	08(2,5,6) 09(4,5)	5	22	175	100	09	24
IR	41.0N	6	16--	..	1	25	3	07(1) 08(4,6)	5	14	125	58	08	20
HD	07.6N	6	1722	SC	- 0.2	+16	- 1	08(4)	5	6	132	23	08	20
TU	40.4N	7	20--	..	..	..	..	08(3) 09(2,4)	6	20	120	35	11	18
AL	09.5N	7	22--	..	..	..	..	08(3,4,6)	5	5	68	29	08	18
AN	01.5N	7	22--	..	..	..	..	--	-	3	69	53	08	18
TV	01.1S	7	22--	..	..	..	..	--	-	4	80	72	08	18
CO	64.6N	8	00--	..	..	..	..	09(4)	8	240	2090	1040	11	15
SI	60.0N	8	00--	..	..	..	..	09(4)	8	--	--	--	11	14
BD	48.9N	8	02--	..	..	..	..	09(2)	6	43	111	127	11	18
GU	04.0N	8	0010	..	..	..	..	08(5)	4	0	100	10	08	20
IR	41.0N	9	01--	..	..	..	..	09(4)	6	14	128	35	09	24
AL	09.5N	9	01--	..	..	..	..	09(4,5)	5	5	96	23	09	22
HD	07.6N	9	0340	..	..	..	..	09(4,5)	5	4	144	24	11	19
AN	01.5N	9	01--	..	..	..	..	--	-	3	113	45	09	22
TV	01.1S	9	01--	..	..	..	..	--	-	3	114	84	09	22
IR	41.0N	10	23--	..	..	..	..	11(5)	6	24	84	20	11	20
AL	09.5N	11	01--	..	..	..	..	11(3,4)	5	4	103	35	11	14
GU	04.0N	11	0300	..	..	..	..	11(3)	5	--	--	--	--	--
AN	01.5N	11	01--	..	..	..	..	--	-	3	133	49	11	14
TV	01.1S	11	01--	..	..	..	..	--	-	2	160	104	11	14
FR	49.6N	24	21--	..	..	..	..	25(3)	6	35	125	75	27	09
HO	21.1N	24	22--	..	..	..	..	25(3)	6	11	133	48	--	--
AL	09.5N	24	21--	..	..	..	..	25(2,3,5)	5	4	162	37	25	21
AN	01.5N	24	21--	..	..	..	..	--	-	2	182	75	25	21
TV	01.1S	24	21--	..	..	..	..	--	-	3	204	94	25	21
CO	64.6N	25	0221	SC*	+ 4	+48	+ 5	25(3)	8	203	1780	750	25	22
SI	60.0N	25	02--	..	..	..	..	25(3)	8	--	--	720	26	18
NE	55.1N	25	0221	SC	0.5	18	3	25(3)	7	71	299	281	28	13
WI	54.2N	25	0222	SC	0	+27	0	25(7,8)	5	25	130	60	26	03
IR	41.0N	25	00--	..	..	..	..	25(3)	6	24	108	45	27	16
TU	40.4N	25	02--	..	..	..	..	25(3)	7	21	120	35	27	12
HD	07.6N	25	0221	SC	- 0.1	+12		25(3,5)	5	4	166	32	26	22
GU	04.0N	25	0037	..	..	..	..	25(3)	5	0	190	20	25	20
HR	33.7S	25	01--	..	..	..	..	25(5)	5	24	106	80	26	15
GN	43.2S	25	0223	SC	+ 1	+ 2	+ 2	25(5)	6	19	90	100	27	09
TO	46.7S	25	02--	..	..	..	..	25(3)	6	30	160	80	27	12
HU	0.6S	25	0220	SC	1	12	2	25(5,6)	5	4	164	18	26	05
HD	07.6N	31	2216	SC	- 0.2	+13	- 1	01(2,3)	4	4	62	24	02	15

Reports were received from the following observatories:

College Newport Fredericksburg Irkutsk San Juan Alibag Guam Trivandrum Gnangara
Sitka Witteveen Boulder Tucson Honolulu Hyderabad Annamalainagar Toolangi
Huancayo Hermanus

SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS

JULY 1975

PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS (by Dr. A. Romana)

The meaning of the station symbols is given in the IAGA-Bulletins nr. 12 and 32. Times of ssc and si are mean values. If given by ten or more stations they are underlined.

Sudden commencements followed by a magnetic storm or a period of storminess (ssc)

06 1721 A: KS QU; B: WN DB IK EB TL PM LM; C: NI CI PP (si: B: DO; C: KA)

25 0221 A: KS; B: WN IK QU PM; C: NI DB TL SS (si: C: EB)

31 2215 A: KS; B: WN DB VI IK EB QU; C: NI SS PP? (si: A: OT FR; B: LM; C: TL? KA - b: B: NU)

Sudden impulses found in the magnetograms (si)

n o n e

Solar-flare effects (sfe)

Effects confirmed by ionospheric or solar observations are underlined.

02 0806 - 0819 SO

31 1329 - 1342 NI

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

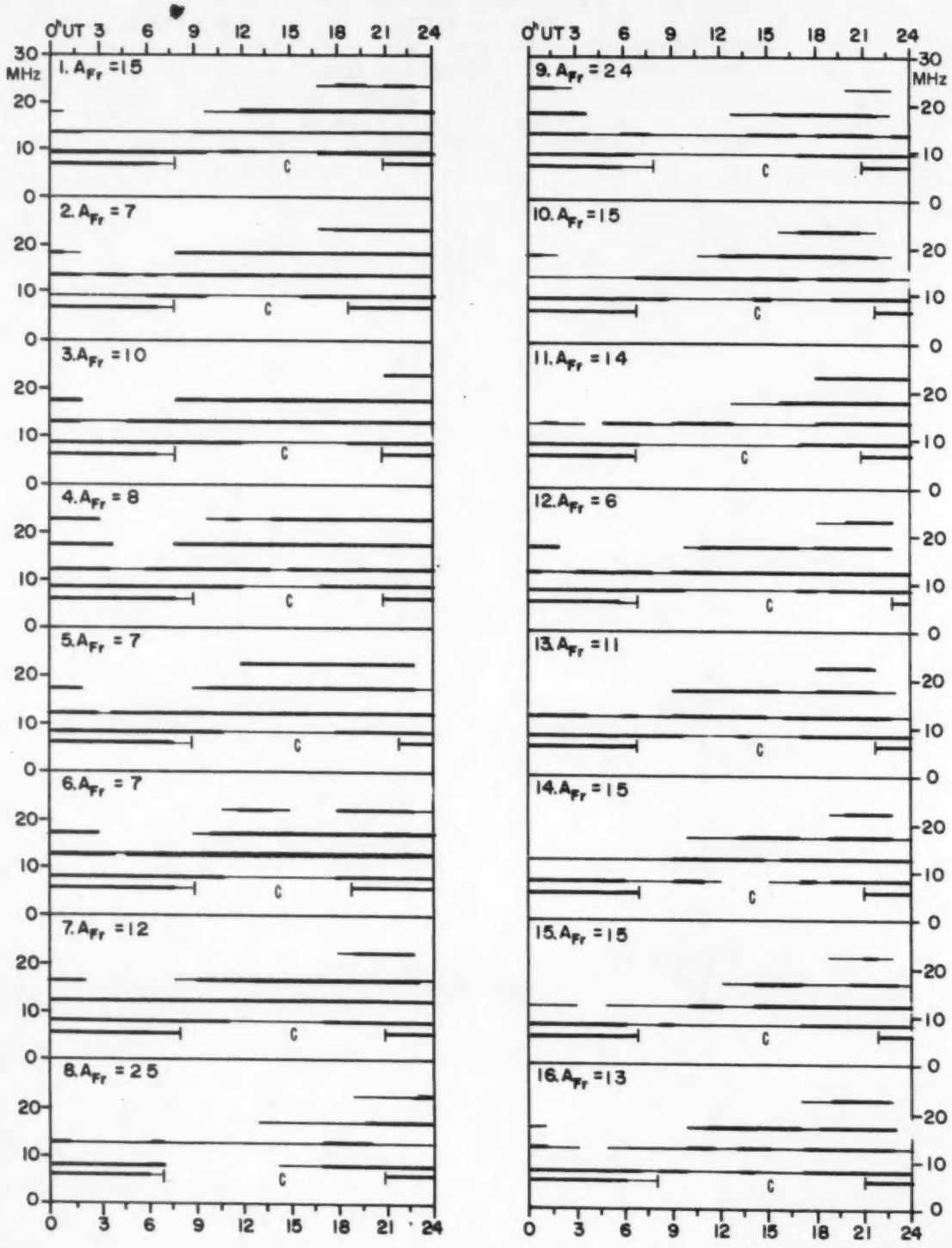
JULY 1975

North Atlantic

JUL 1975	WHOLE DAY INDICES NORTH ATLANTIC	ADVANCE FORECASTS (JC-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC 6-HOURLY QUALITY FIGURES 00 TO 06	06 TO 12	12 TO 18	18 TO 24	NORTH ATLANTIC SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF 02	08	14	20	GEOMAGNETIC INDICES K_{FR} HALF DAY (1)	(2)	A_{FR} OBSERVED
01	7-	5	7o	6+	6o	7-	5	5	6	6	3	2	15
02	6o	6	6+	6o	6o	6o	6	6	6	6	2	2	7
03	6o	6	6o	6-	6o	6o	6	6	6	6	3	2	10
04	6+	6	7-	6o	6o	7-	6	6	6	6	1	3	8
05	6+	6	7-	7-	6o	6o	6	6	6	6	2	2	7
06	6o	6	6o	6o	6-	7-	6	6	6	6	1	3	7
07	6+	6	6o	6+	7-	6+	6	6	5	6	3	2	12
08	5o	5	5o	5-	5+	5+	5	5	5	5	(5)	3	25
09	5+	5	6-	5o	6-	6-	5	5	5	5	(4)	3	24
10	6-	5	5+	6-	6o	6-	5	5	6	6	3	3	15
11	6-	5	6-	4+	6o	6o	5	5	6	6	(4)	2	14
12	6+	5	6o	6-	6o	7o	5	5	6	6	2	2	6
13	6o	5	6+	6-	6o	6o	6	6	7	7	2	3	11
14	6o	5	6o	5+	6+	6+	5	5	5	6	3	3	15
15	6o	6	6o	6+	6-	6-	5	5	6	6	3	3	15
16	6-	6	6-	6-	6-	6o	6	6	6	6	3	2	13
17	6+	6	6o	7-	6o	6o	6	5	6	6	3	3	15
18	6+	6	6o	6+	6o	6+	6	6	6	6	3	3	14
19	6o	6	6-	6o	6o	6o	6	6	6	6	3	2	11
20	6o	6	6o	6o	6o	6o	6	6	6	6	2	2	8
21	6+	6	7-	6o	7-	6o	6	6	6	6	2	2	6
22	6o	7	6o	5+	7-	7-	6	6	6	6	2	2	8
23	6-	7	6o	5o	6o	6o	6	6	6	7	2	1	7
24	6o	7	6o	6-	6-	6+	6	6	6	7	2	1	6
25	6-	7	6o	5o	6-	6o	6	6	5	5	(4)	3	26
26	6-	7	6-	5-	6+	6+	5	4	5	5	(4)	3	20
27	6o	6	6o	6o	6o	6o	5	5	6	6	3	2	14
28	6-	6	6o	6-	6-	6-	6	5	6	6	3	2	11
29	6o	6	6o	6o	6-	6o	5	6	6	6	2	1	3
30	6o	6	6o	5-	7-	6+	6	6	6	6	2	1	6
31	6+	6	6o	6+	6+	6o	6	6	7	6	1	1	4

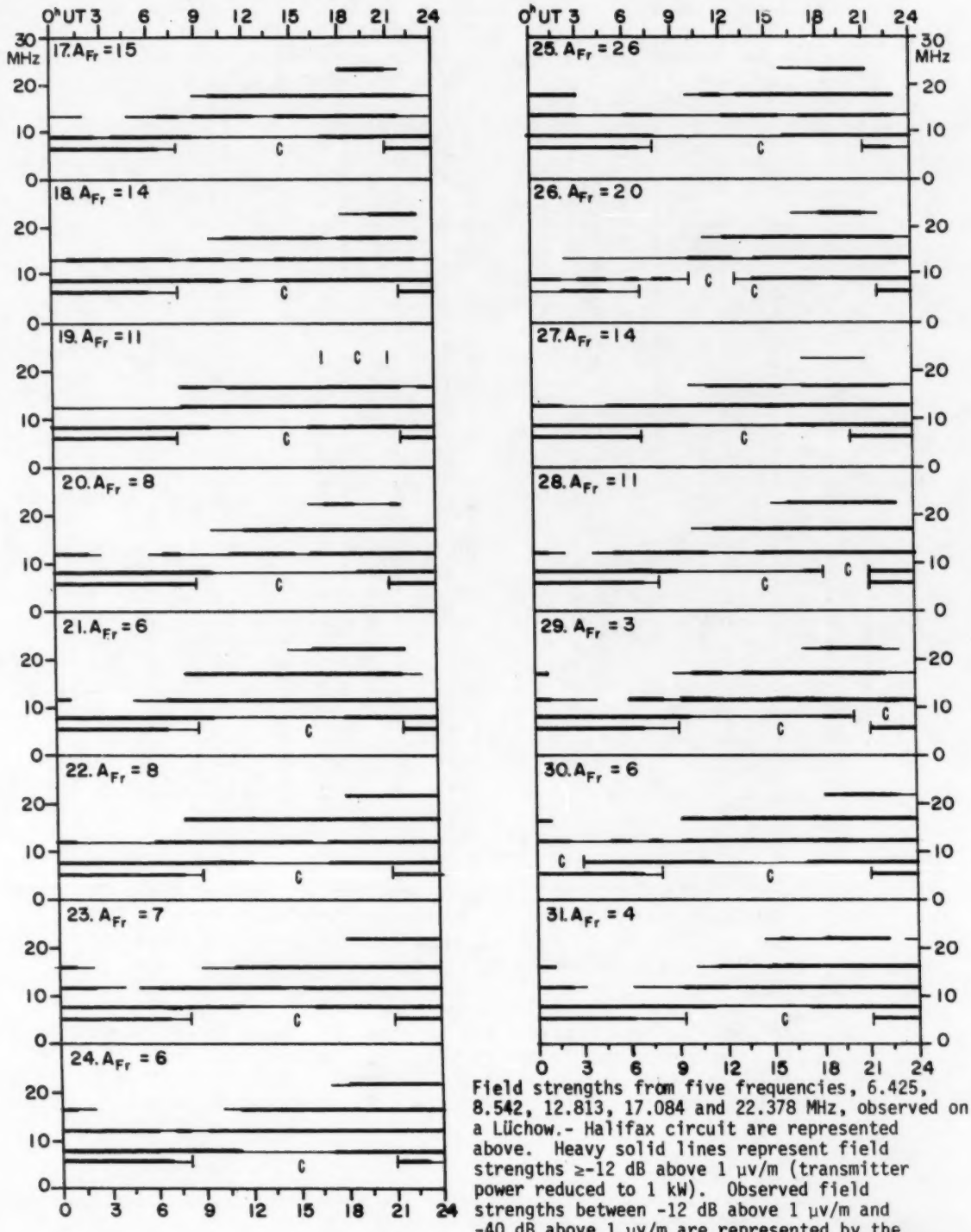
TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

JULY 1975



TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

JULY 1975



Field strengths from five frequencies, 6.425, 8.542, 12.813, 17.084 and 22.378 MHz, observed on a Lüchow.- Halifax circuit are represented above. Heavy solid lines represent field strengths ≥-12 dB above 1 μv/m (transmitter power reduced to 1 kW). Observed field strengths between -12 dB above 1 μv/m and -40 dB above 1 μv/m are represented by the fine line. Adopted from Observations by Deutsche Bundespost

USCOMM - ERL

RADIO PROPAGATION QUALITY INDICES

JULY 1975

Quality Indices calculated for reception at Lüchow

	TOKYO	HALIFAX	MAURITIUS	CANBERRA	BRACKNEL
1	5.6	7.6	7.4	5.0	12.9
2	5.4	8.0	7.5	5.2	13.6
3	5.4	7.8	6.6	6.0	13.1
4	5.7	8.2	6.4	6.0	12.7
5	5.8	8.0	5.4	5.5	13.9
6	6.2	8.8	5.8	6.0	13.5
7	6.1	7.9	6.9	5.8	13.3
8	3.5	5.2	5.9	5.4	13.2
9	3.8	5.5	6.7	5.5	13.5
10	5.2	6.7	5.7	5.7	13.6
11	4.9	6.1	5.6	5.9	13.5
12	5.2	7.1	5.8	4.7	13.5
13	5.7	7.3	5.9	4.5	13.2
14	5.8	6.5	5.1	5.7	13.5
15	5.4	6.3	5.9	5.5	13.0
16	5.8	6.5	5.5	5.1	13.4
17	6.2	6.9	5.5	6.2	13.0
18	5.2	6.7	5.8	5.2	13.2
19	5.6	7.1	6.1	5.9	13.0
20	5.6	7.1	6.3	6.0	13.0
21	6.1	7.8	6.6	6.0	12.8
22	6.7	7.8	6.2	6.6	13.6
23	6.0	8.0	6.0	6.5	13.6
24	6.6	7.8	6.1	6.2	13.5
25	5.4	5.3	6.0	6.1	13.6
26	5.5	6.3	4.9	6.0	13.7
27	6.0	7.2	5.2	6.0	13.7
28	5.5	7.5	5.7	5.9	14.4
29	6.4	7.3	4.9	5.5	13.1
30	5.5	7.3	4.9	5.4	13.7
31	5.7	7.2	4.1	5.5	13.4
MEAN	5.6	7.1	5.9	5.7	13.4

The method of calculation of the radio propagation indices changed in July 1974. An absolute quality figure is calculated for a 24-hour period from Tokyo, Halifax, Mauritius (Africa) and Canberra. The figure 0.0 corresponds to a median field strength of -30 dB above 1μV/m (converted into 1 kW and referred to an omnidirectional antenna). The figures 1 to 10 are in steps of 5 dB with the figure 10.0 corresponding to a median field strength of +20 dB above 1μV/m. The field strength of the frequency with the highest value for each hour is used in place of a mean of all recorded frequencies. This is done on the assumption that the optimum frequency would be used for communication.

USCOMM-NOAA-ASHEVILLE--9-30-75--950

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1776-1976

September 1975 Number 373-Part II

Solar-Geophysical Data comprehensive reports

Data for March 1975–February 1975 & Miscellanea

Explanation of Data Reports Issued as Number 366 (Supplement) February 1975

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Solar - Geophysical Data

NO. 373 SEPTEMBER 1975

Part II (Comprehensive Reports)

DATA FOR
MARCH 1975
FEBRUARY 1975
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
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No. 373

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

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F.1b	Cosmic Ray Neutron Counts (Climax)					366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	
F.1e	Cosmic Ray Neutron Counts (Alert)	362A112	364B 42	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	
F.1f	Cosmic Ray Neutron Counts (Calgary)	362A112	363A116	364A111	366B 32	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102		
F.1g	Cosmic Ray Neutron Counts (Sulphur Mountain)	362A112	363A116	364A111	366B 32	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102		
F.1h	Cosmic Ray Neutron Counts (Thule)	363B 47	363A116	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	
F.1i	Cosmic Ray Neutron Counts (Kiel)	362A112	363A116	364A111	365A102	366A101	367A104	368A 96	370A102	370A 98	371A102	372A102	373A112	
F.1j	Cosmic Ray Neutron Counts (Tokyo)	362A112	363A116	364A111	365A102	366A101	367A104	368A 96	369A102	370A 98	371A102	372A102	373A112	
H.	Miscellaneous													
H.60	IUWDS Alert Decisions	361A 4	362A 4	363A 4	364A 4	365A 4	366A 4	367A 5	368A 4	369A 5	370A 5	371A 5	372A 4	373A 4
H.62	Abbreviated Calendar Record	367B 44	368B 48	369B 21	370B 17	371B 13	372B 11	373B 15						

Note: A = Part I, B = Part II.

362A 32 listed under 1974 Aug shows that data for August 1974 were contained in *Solar-Geophysical Data* Number 362 - Part I beginning on page 32.

MARCH 1975 DATA

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Hα SOLAR FLARES

MARCH 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	NOAA PLAGE REGION	CMP DAY			CORD.	TYPE	TIME — UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
KHAR	02	1149E		1149D	N16	W22	.515		31.8		SF		P				D
KHAR	03	1140E	1145	1155D	N17	W38	.696		31.6	150	SF		P	1145	80	1.4	D
HTPR	04	1542E		1657D	N12	W57	.862		31.4	750	SF		C	1648	30	.5	E
RAMY	05	1918	1919	1932	N12	W73	.965		31.3	14	SF	2	C		27		DE
HTPR	06	1150	1151	1201	N07	E70	.946		11.7	11	SF		C	1151	10		
PALE	11	0039	0045	0052	S13	W30	.503		8.8	13	SF	3	C		65		DE
MANI	12	0039E	0040U	0055	S14	W31	.520		9.7	160	SN	2		0040	90	1.0	F
MITK	12	0040E		0049D	S13	W32	.532		9.6	90	SN		P	0040	80	1.0	E
PALE	12	0040	0045	0052	S13	W30	.503		9.8	12	SN	3	V		70		DE
MANI	12	0310	0312	0327	S14	W32	.534		9.7	17	SN	2		0312	120	1.4	H
TEHR	12	0312E	0312U	0328	S13	W32	.532		9.7	160	SN	2	V		115		F
ABST	12	0607	0634	0647D	S13	W36	.588		9.6	400	SF		P	0634	87	1.1	D
MANI	12	0847	0850	0904	S14	W37	.603		9.6	17	SF	2		0850	30	.3	
MANI	12	0917	0920U	0920D	S14	W37	.603		9.6	30	SN	2		0920	80	1.0	
TEHR	12	0919	0924	0935	S13	W34	.560		9.8	16	SN	3	V		75		
ATHN	12	1343	1347	1414	S13	W39	.628		9.6	31	SN	2	C		192		U F
ATHN	12	1343	1347	1414	S13	W39	.628		9.6	31	SN	2	V		192		U F
RAMY	12	1343	1346	1425	S15	W37	.605		9.8	42	SN	4	C		108		F
RAMY	12	1350E	1355	1419	S13	W37	.601	13532	9.8	290	1F	4	C		210		DE
RAMY	12	1350E	1355D	1355D	S13	W37	.601	13532	9.8	50	1F	4	V		210		DE
HTPR	12	1411E		1427D	S13	W38	.615		9.7	160	SN		C	1412	80	1.0	EI
HUAN	12	1411E		1423	S13	W36	.588		9.9	120	SF		P	1411	85	1.1	E
HUAN	12	1647E		1654D	S13	W40	.641		9.7	70	SF		P				
RAMY	12	1648	1653	1706	S15	W39	.631		9.8	18	SF	3	C		90		F
HUAN	12	1722		1725D	S13	W40	.641		9.7	30	SF		P				
PALE	12	1833E	1847	1852	S13	W41	.654		9.7	190	SF	2	C		35		DE
PALE	12	1834E	1847U	1919D	S13	W41	.654		9.7	450	SF	2	V		40		DE
BOUL	12	1913	1920	1942	S15	W38	.618		10.0	29	SF	2	C	1920	21	.3	
HUAN	12	1914		1922	S13	W41	.654		9.7	8	SF		P				
RAMY	12	1917	1920	1928	S15	W41	.657		9.7	11	SF	3	C		36		DE
BOUL	12	2237	2243	2300	S15	W42	.669		9.8	23	SF	2	C	2243	32	.4	
MANI	12	2238	2240	2252	S13	W44	.692		9.6	14	SN	1		2240	30	.4	F
MANI	13	0027	0035	0048	S13	W43	.679		9.8	21	SF	2		0035	110	1.5	F
MANI	13	0629	0637	0657	S13	W49	.750		9.6	28	SF	2		0637	40	.6	
ABST	13	0801E	0804	0815D	S11	W50	.761		9.6	140	1N		P	0804	131	2.1	D
RAMY	13	1207	1209	1220	S15	W48	.740		9.9	13	SF	4	C		32		DE
HUAN	13	1710		1717D	S13	W56	.823		9.5	70	SF		P				
BOUL	13	1919	1921	1932	S15	W53	.794		9.8	13	SF	2	C	1921	11	.2	
HUAN	13	1921	1922	1925	S14	W55	.814		9.7	4	SF		C	1922	30	.5	
HUAN	13	1947E		1948	S13	W56	.823		9.6	10	SF		P				C
BOUL	13	2041	2045	2055	S14	W57	.833		9.6	14	SF	2	C	2045	11	.2	
VORO	14	0058E		0119	S16	W57	.834		9.8	210	SB		C	0104	99	1.7	EJ
MANI	14	0059	0107	0131	S13	W57	.833		9.8	32	SN	2		0107	100	1.7	F
HUAN	14	1912		1934D	S12	W70	.934		9.6	220	SF		P	1929	35		
VORO	14	2339	2353	0021	S15	W70	.933		9.7	42	1B		C	2353	108	2.9	EJ
MANI	14	2351E	2353	0022D	S12	W70	.934		9.7	310	SN	1		2353	80	1.7	F
ARCE	15	0840E		1000D	S12	W80	.981		9.4	800	SN		C	0921	68		
ARCE	15	0906E		0921	S13	W12	.231		14.5	150	SF		C	0913	65	.7	
ARCE	15	0913E		0925D	S10	W48	.738		11.8	120	SF		P	0913	22	.3	
HTPR	15	1024	1026	1031	S12	W80	.981		9.4	7	SF		C	1026	20		
RAMY	15	1831	1835	1845	S13	W82	.987		9.6	14	SF	4	C		23		DE
BOUL	15	2339	2344	2349	S13	W90	1.000		9.2	10	SF	2	C	2344	11	.4	
ABST	16	0601E	0608	0630D	S15	W89	.999		9.6	290	2F		P	0608	87	6.4	ADJ
ABST	16	0650E	0652	0700D	S11	W61	.869		11.7	100	SF		P	0652	70	1.4	EJ
ABST	16	0809	0816	0858	S11	W61	.869		11.8	49	SF		C	0816	70	1.4	FJK
ATHN	16	0915	0917	0947D	S11	W61	.869		11.8	320	SF	4	V		32		DE
ATHN	16	0915	0917	0947D	S11	W61	.869		11.8	320	SF	4	C		32		DE
RAMY	16	1216	1225	1252	S10	W62	.877		11.9	36	SF	4	C		45		DE H
HUAN	16	1312E		1313D	S10	W65	.901		11.7	10	SF		P	1312	30	.7	
ATHN	16	1314	1317	1325	S11	W63	.885		11.8	11	SF	5	C		32		DE
ATHN	16	1314	1317	1325	S11	W63	.885		11.8	11	SF	5	V		32		DE
RAMY	16	1411	1417	1426	S12	W63	.885		11.9	15	SF	4	C		27		DE

Several changes in the presentation of the Grouped Flare Data have been planned to begin with the January 1975 data. The preparation of the new presentation has been delayed because of problems in computer conversions. Therefore, only the observatory flare reports are included here. The grouped flares will no longer be classified as "confirmed" or "unconfirmed". The flare list for this month will be republished later and will include a summary line for each flare. Measured area is now reported in millionths of the solar disk.

Hα SOLAR FLARES

MARCH 1975

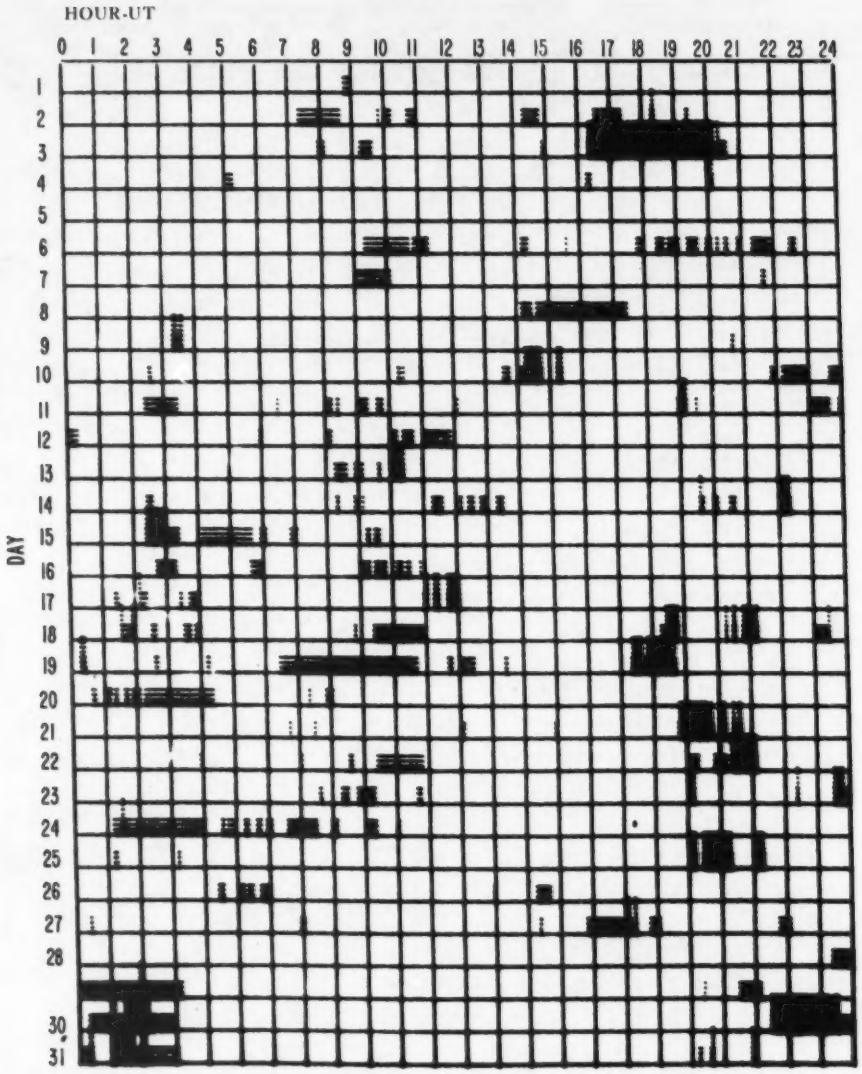
OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
BOUL	16	1918	1939	1952	S16	W31	.525		14.3	34	SF	1	C	1939	11	.1	
ARCE	17	0844E		0908D	S13	W40	.640		14.4	24D	SN		C	0902	46	.6	
MONT	17	0901	0903	0906	S05	W38	.613		14.5	5	SN		C	0903	20		B
HUAN	17	1748		1751	S09	W85	.995		11.4	3	SF		C				
RAMY	17	1754E		1755D	S17	W90	.999		11.0	10	SB	4	C				
HTPR	18	0800	0806	0810	S08	W33	.541		15.9	10	SF		C	0806	10	.1	E
HTPR	18	0815	0851	0900	S13	W58	.842		14.0	45	SF		C	0851	30	.5	E
HTPR	18	0937	0941	1030	S13	W59	.851		14.0	53	SF		C	0941	20	.4	E
HTPR	18	1047	1051	1112	S08	W36	.584		15.7	25	SF		C	1057	10	.1	E
HTPR	18	1100	1103	1108	S13	W60	.860		14.0	8	SF		C	1103	20	.4	E
HTPR	18	1136	1138	1219	S08	W36	.584		15.8	43	SF		C				E
HTPR	18	1136	1144	1219	S08	W36	.584		15.8	43	SF		C	1144	20	.2	E
HTPR	18	1216	1219	1229	S13	W61	.868		13.9	13	SF		C	1219	10	.1	
HTPR	19	1505	1505	1516	S14	W70	.933		14.4	11	SF		C				
HTPR	19	1505	1508	1516	S14	W70	.933		14.4	11	SF		C	1508	20		
HTPR	21	0807	0810	0820	N10	W73	.964		15.9	13	SF		C	0810	10		
HTPR	21	0859	0910	0919	N10	W75	.973		15.7	20	SN		C	0910	30		E
HTPR	21	0956	1007	1053	N10	W75	.973		15.8	57	SF		C	1007	30		E
HTPR	21	1110	1112	1125	N10	W76	.977		15.8	15	SF		C				E
HTPR	21	1110	1118	1125	N10	W76	.977		15.8	15	SF		C	1118	30		E
HTPR	21	1140	1150	1215	N10	W76	.977		15.8	35	SN		C	1150	30		E
HTPR	21	1234	1235	1305	N10	W76	.977		15.8	31	SN		C	1235	30		E
HUAN	21	1556E		1606D	N08	W82	.993		15.5	10D	SF		P				
HUAN	21	1949E		2005D	N07	W85	.997		15.5	16D	SF		P	1952	30		
VORO	21	2242	2244	2247	N05	W88	1.000		15.3	5	SF		C	2244	18	1.2	DG
PALE	21	2244E	2244U	2249	N 8	W81	.991		15.9	5D	SF	2	C		22		DE
PALE	21	2244E	2245U	2249	N 7	W85	.997		15.6	5D	SF	3	V		30		DE
PALE	22	0128E	0129U	0133D	N 8	W87	.999		15.5	5D	SF	2	V		25		DE
PALE	22	0129E	0129U	0136	N 8	W84	.996		15.8	9D	SF	2	C		18		DE
RAMY	23	2013	2017	2031	N16	E47	.787		27.4	18	SF	3	C		27		DE
HTPR	26	1238	1246	1256	S07	W02	.035		26.4	18	SF		C	1246	20	.2	E
HTPR	26	1310		1440	N10	W90	1.000		19.8	90	SF		C	1323	20		K
ABST	29	0744	0749	0803	N14	E56	.861		5.5	19	SF		C	0749	87	1.9	DJ
ABST	30	0738	0739	0745	S15	E85	.993		8.7	7	2F		C	0739	87	6.4	DJ
ABST	30	1118	1122	1126	N01	E36	.600		5.2	8	SF		C	1122	87	1.1	D
KODA	31	0236	0237	0345	S17	E75	.959		8.7	69	SN		V	0239			

Note: Daily Flare Indices not available because of problems with computer conversion.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

MARCH 1975



Observatories included in total patrol:

Abastumani	Catania	Hurbanovo	Lvov	Monte Mario	Upice
Arcetri	Culgoora	Kharkov	Manila	Palchua	Voroshilov
Athenes	Haute Provence	Kiev	McMath-Hulbert	Ramey	Wendelstein
Boulder	Herstmonceux	Kodaikanal	Meudon	Tachkent	Zürich
Bucharest	Huancayo	Locarno	Mitaka	Tehran	

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
MARCH 1975

MAR 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
1	3100	CRIM	24 R	0855.5	1123.5		6			
2	9240	ARCE	3	1600.6	1601.2	3				
	245	SGMR	43 NS	1620.2	1642.6	124.8	10.4			
3	18	MCMA	6 S	1655	1657	2			1	
4	550	KIEV	40 F	1246.6	1250	4.2	5	1		
	550	KIEV	40 F	1316.5	1316.7	2.5	6	1		
	550	KIEV	6 S	1328.1	1328.2	0.4	5			
	18	MCMA	41 F	1328	1330	5			1	
	18	MCMA	6 S	1341	1343	2			1	
	550	KIEV	6 S	1342.1	1342.3	0.7	6	3		
	550	KIEV	6 S	1347.1	1347.3	0.7	7			
6	3100	CRIM	45 C	0929.5	0934	28	3	1		
	3100	CRIM		0949			3			
	2695	BOUL	8 S	2059.5	2100.5	2	9	4		
	2695	BOUL	3 S	2105.5	2106	1.5	5	2		
7	2695	BOUL	45 C	2329.5	2330.5	2	23	9		
	4995	BOUL	2 S	2332.5	2334	4	22	5		
8	930	BORD	1 S	1029	1029	0.1	68	1		
	18	MCMA	6 S	1333	1335	2			1	
	930	BORD	1 S	1409.5	1409.5	0.1	12	1		
9	3100	CRIM	24 R	0800 U	0845		4			
	930	BORD	1 S	1249.7	1249.7	0.1	10	1		
	2700	PENN	1 S	1344.7	1345.4	8.3	6.8	0.5		
	245	SGMR	6 S	1922.9	1931.6	15.8	21.8	6.5		
	410	SGMR	6 S	1927	1931.2	10.9	.7	.2		
	245	SGMR	43 NS	1955.4	2031	162.60	16.2			
10	29	UPIC	3 S	1331.5	1331.8	0.7				UNCERTN
	33	UPIC	3 S	1331.5	1331.8	0.5				UNCERTN
	18	MCMA	6 S	1435	1436	2			1	
	2695	BOUL	45 C	2222	2222.5	1.5	5	2		
11	18	MCMA	41 F	2245	2247	4			1	
12	9400	TYKW	20 GRF	0037	0047	50	4	2		OR
	2000	TYKW	20 GRF	0037	0045	50	1	0.5		
	3750	TYKW	20 GRF	0037	0045	50	2	1		OR 294043F
	720	SYDN	20 GRF	0053.3	0053.3U	0.6	12			
	3750	TYKW	20 GRF	0310	0320	35	2	1		OR 294043F
	9400	TYKW	20 GRF	0310	0320	30	3	1		OR
	2000	TYKW	20 GRF	0310	0320	80	0.7	0.3		
	3100	CRIM	1 S	0916.6	0918.1	23	5	2		
	3100	CRIM	29 PBI			23				
	9240	ARCE	21	1002.1	1021	15				
	9240	ARCE	2	1030.1	1030.2	0.7				
	9240	ARCE	2	1042.9	1043.5	2				
	2800	OTTA	20 GRF	1340	1420	75	1.4	0.7		
	100	HIRA	45 C	2131	2131.9	2.5	380	200		WL
13	3100	CRIM	24 R	0820 U	1300 U		6			
	9240	ARCE	20	1339.1	1344.8	76 D				
	550	KIEV	41 F	1349.5	1351.6	6	6			
	2800	OTTA	20 GRF	1410	1610	215	1.8	0.9		
	2800	OTTA	24 R	1610	1640	30	1.2	0.6		
	2800	OTTA	27F RF	1610		140	1.2	1		
	2800	OTTA	24P R	1840		100	1.2			
	2800	OTTA	26 FAL	2020	2030	10	-1.2	-0.6		
	18	MCMA	6 S	2310	2312	2			1	
	18	MCMA	6 S	2317	2318	1			1	
14	2695	PENT	2 S/F	0004	0005	3.5	1.4	0.7		
	9400	TYKW	20 GRF	0050	0102.6	60	4	2		OR
	2000	TYKW	5 S	0057	0102.9	15	1.7	0.5		
	3750	TYKW	5 S	0058	0102.8	10	4	1		OR 294071F
	720	SYDN	8 S	0513	0513.1	0.1	19			
	720	SYDN	8 S	0513.8	0513.9	0.1	19			
	29	UPIC	4 S/F	0931.5	0931.7	0.8				
	33	UPIC	4 S/F	0931.8	0932.1	0.9				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
MARCH 1975

DAY OF MONTH	FREQUENCY	STATION	TYPE		STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	POLARIZATION OR REMARKS
	808	ONDR	8	S	0934.5	0934.5	0.2	25			
	2695	PENT	20	GRF	2335	2340	55	1.8	0.9		
15	260	ONDR	8	S	0955.6	0955.6	0.2	4			
16	200	GORK	44	NS	0500 E		147		5		
	650	GORK			0502.2	0506.4		12			
	650	GORK	48	C	0502.2	0505.6	2.5	17			
	950	GORK			0505	0507		24			
	950	GORK	48	C	0505	0505.7	3.6	28			
	260	ONDR	44	NS	0800 E		440 D	23			
	200	GORK	44	NS	0812		228 D		5		
	220	HARS	43	NS	0830		510 D	2	1		SUNSET
	245	SGMR	44	NS	1059 E	1502.7	707 D	39.8			
	410	SGMR	44	NS	1059 E	1253.7	707 D	5.2			
	200	HIRA	44	NS	2050 E	0437	710 D	15	8		SR
	207	VORO	44	NS	2200	0100	240	19			
	6100	KISV	3	S	0809.3	0809.3	12	1.2			
	536	ONDR	8	S	0957.2	0957.2	0.2	10			
	808	ONDR	8	S	0957	0957	0.2	8			
	2800	OTTA	240	R	1403 D	1410	7 E	2			CALIBRATION
	2800	OTTA	24P	R	1410		285	2			
	2800	OTTA	240	R	1855	1910	15	1.6	0.8		
	2800	OTTA	24P	R	1910		340 D	1.6			
	2800	OTTA	8	S	1910.7	1910.7	0.3	2.6			
	2800	OTTA	20	GRF	2000	2035	90	1.8	0.9		
17	3100	CRIM	26	FAL	0600 E	1300 U		7			
	200	GORK	44	NS	0458.4E		53 D		50		
	100	GORK	44	NS	0458.4E		453 D		6		
	221	ABST	44	NS	0700	0800.2	240	6			
	207	IZMI	43	NS	0700		300	19			
	220	HARS	44	NS	0700 E		600 D	3	1.5		SUNRISE-SUNSET
	260	ONDR	44	NS	0735 E		448 D	20			
	221	ABST	6	S	0800	0800.2	0.5	24			
	221	ABST	6	S	0842.8	0843	0.5	24			
	127	TORN	43	NS	0950		140 J				
	127	TORN	46	C	1039.9	1044.6	9	400 U			UNCERTN
	245	SGMR	44	NS	1057 E	U	710 D	U			
	2700	PENN	1	S	1526.6	1527.2	1.4	2.6	1.5		
	2700	PENN	1	S	1543.9	1546.1	4.4	3.4	1.1		
	410	SGMR	6	S	1601	1601.6	1	3.9	1.2		
	606	SGMR	2	S/F	1601.2	1601.3	.6	7.6	2.3		
	200	HIRA	44	NS	2050 E	0509	710 D	15	7		SR
	207	VORO	44	NS	2200	0012	240	19			
18	200	GORK	44	NS	0458.1E		482 D		40		
	100	GORK	43	NS	0500 E		111		5		
	221	ABST	44	NS	0700	0742	240	5			
	220	HARS	44	NS	0700 E		600 D	2	1		SUNRISE-SUNSET
	260	ONDR	44	NS	0720 E		465 D	20			
	221	ABST	6	S	0741.8	0742	0.5	20			
	127	TORN	44	NS	0830 E		350 D	4			
	315	DWIN	44	NS	0840	1040	450		3		
	286	DWIN	44	NS	0840	1040	450		7		
	245	SGMR	44	NS	1055 E	1218.6	714 D	25.5			
	2700	PENN	1	S	1937.2	1937.4	2.6	3.4	0.4		
	2700	PENN	1	S	2005.4	2007.4	5	2.6	0.5		
	2700	PENN	40	F	2109		8.6				
	200	HIRA	44	NS	2050 E	2228	710 D	10	5		SR
	207	VORO	44	NS	2200	0008	240	23			
19	100	HIRA	45	C	0007	0007.3	0.8	490	130		HL
	200	GORK	44	NS	0452.2E		488 D		15		
	286	DWIN	44	NS	0805		440		1		
	536	ONDR	8	S	0924.7	0924.7	0.2	9			
	127	TORN	7	C	1016	1017	2.3	26			
	33	UPIC	3	S	1553.5	1553.8	0.8				
	29	UPIC	3	S	1553.6	1554	0.9				
	9240	ARCE	8		1630.2	1630.3	1				
20	930	BORD	45	C	1735.1	1735.1	0.2	10	1		
	1420	BOUL	8	S	1750.5	1750.5	2	11	2		
	207	VORO	41	F	2357	2359	3	23			
21	9240	ARCE	3		0800.1	0800.2	1.6				
	221	ABST	6	S	1020.8	1021	0.5	9			
	2800	OTTA	20	GRF	1925	2005	95	1.4	0.7		
22	260	ONDR	8	S	1114.5	1114.5	0.2	5			
	930	BORD	1	S	1117.7	1117.7	0.1	9	1		
	536	ONDR	8	S	1256.2	1256.2	0.2	8			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
MARCH 1975

MAR 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
	260	ONDR	3 S	1256.8	1257.8	2	7	1.5		
	536	ONDR	8 S	1323.3	1323.3	0.2	14			
	260	ONDR	8 S	1414.5	1414.5	0.2	4			
	550	KIEV	41 F	1432.7	1434.8	10	6			
23	3100	CRIM	1 S	0620	0621	2	6	2		
24	550	KIEV	27 RF	1310	1319.5	20	6	2		
	2700	PENN	28 GRF	1412.2	1417.8	48.5	3.6	1.9		
	2700	PENN	8 S	1434	1434.1	0.3	1.6			
	2700	PENN	24 R	1950.4	2215.1		5.5			
25	260	ONDR	8 S	1042.3	1042.3	0.2	7			
	2700	PENN	8 S	1206.4	1206.5	0.2	9.2			
26	930	BORD	1 S	0816.2	0816.2	0.1	103	1		
	550	KIEV	41 F	0951	1002.9	14	35			
27	9240	ARCE	1	1104.8	1105.3	1.5				
30	260	ONDR	3 S	0824.6	0825.4	2	28	4.2		
	260	ONDR	40 F	0917	0921	6	4	1		
	260	ONDR	40 F	1021	1029	9	9	4.2		
	29	UPIC	1 S	1153.3	1153.9	1				UNCERTN
	33	UPIC	1 S	1153.5	1153.9	0.8				UNCERTN
	550	KIEV	41 F	1449.5	1449.6	9	9			
	18	MCMA	42 SER	2232	2306	37			1	
	18	MCMA	6 S	2323	2324	2			1	
	18	MCMA	41 F	2332	2334	4			1	
31	260	ONDR	40 F	0840	0843.2	5	8	5		

Reports received from the following observatories:

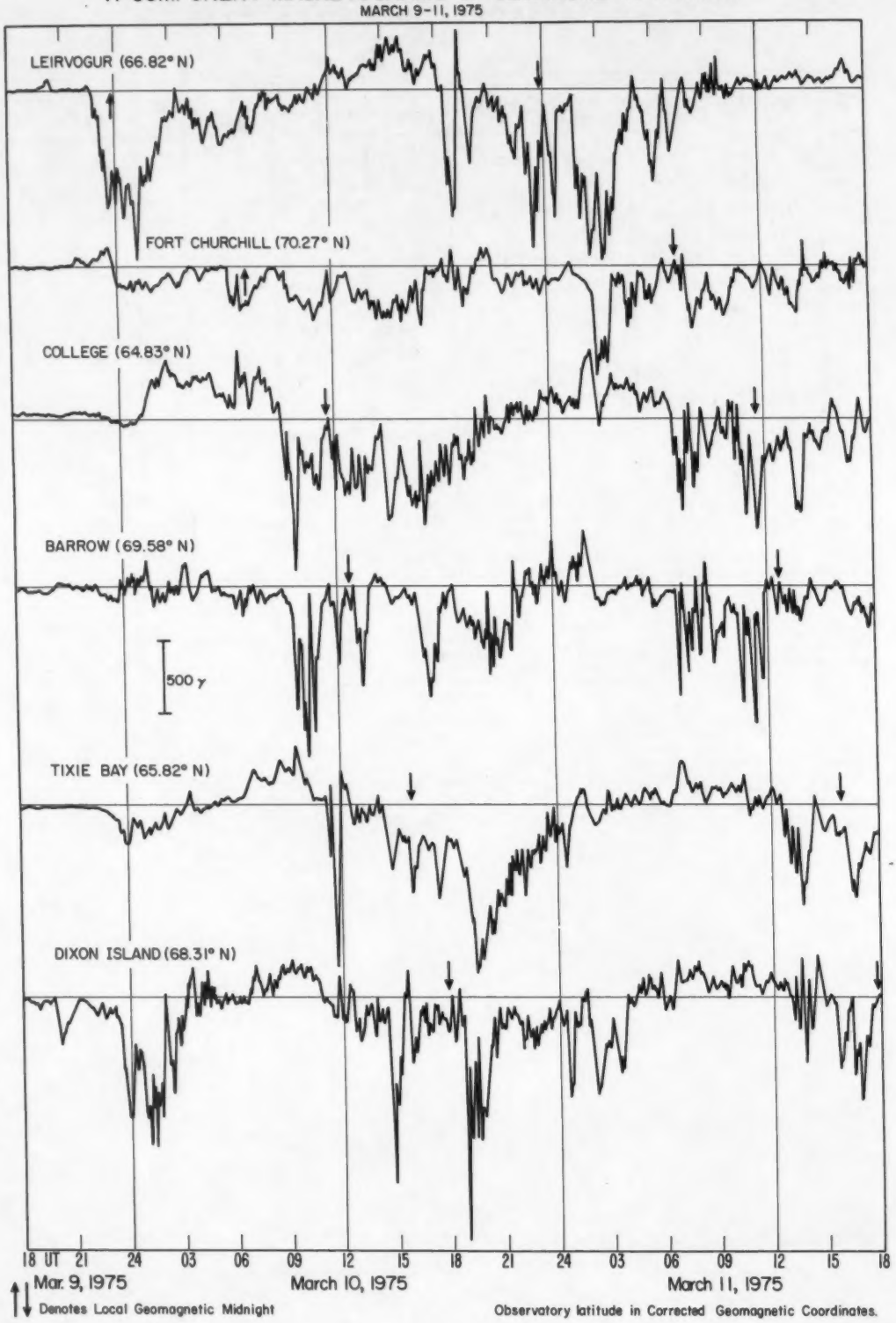
ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BORD = Bordeaux
BOUL = Boulder
CRIM = Simferopol
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow Izmiran
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov (Ussurisk)

Explanation of Type Code:

1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
32 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

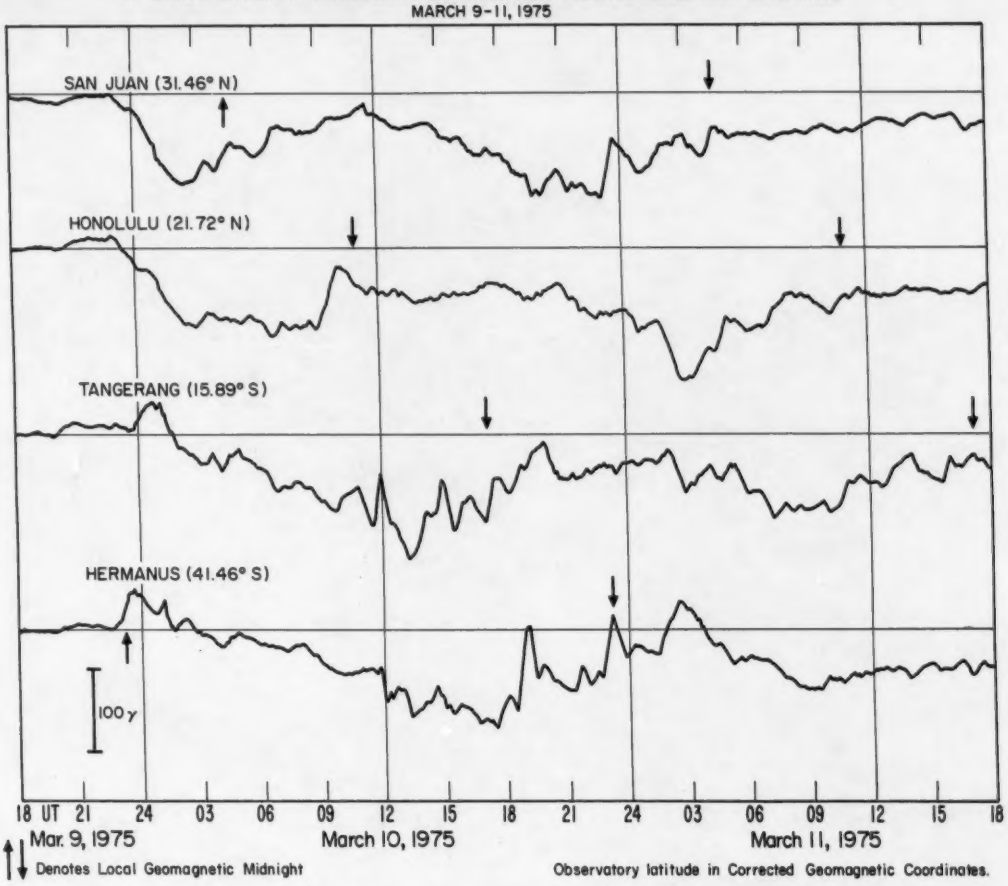
H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

MARCH 9-11, 1975

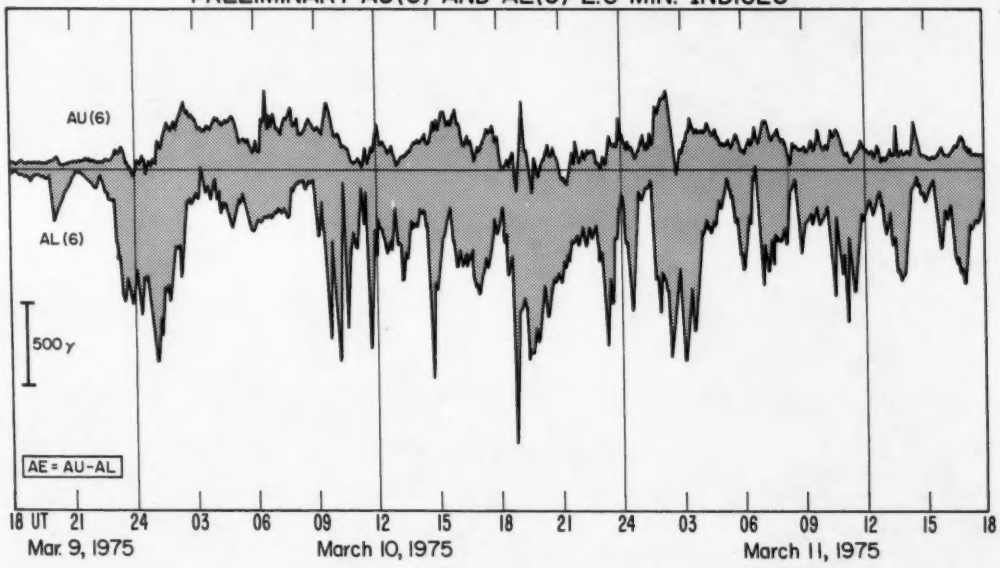

LEIRVOGUR (66.82° N)
FORT CHURCHILL (70.27° N)
COLLEGE (64.83° N)
BARROW (69.58° N)
500 γ
TIXIE BAY (65.82° N)
DIXON ISLAND (68.31° N)
18 UT 21 24 03 06 09 12 15 18 21 24 03 06 09 12 15 18
Mar. 9, 1975
March 10, 1975
March 11, 1975
Denotes Local Geomagnetic Midnight
Observatory latitude in Corrected Geomagnetic Coordinates.

H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

MARCH 9-11, 1975


SAN JUAN (31.46° N)
HONOLULU (21.72° N)
TANGERANG (15.89° S)
HERMANUS (41.46° S)
100γ
18 UT 21 24 03 06 09 12 15 18 21 24 03 06 09 12 15 18
Mar. 9, 1975
March 10, 1975
March 11, 1975
Denotes Local Geomagnetic Midnight
Observatory latitude in Corrected Geomagnetic Coordinates.

PRELIMINARY AU(6) AND AL(6) 2.5-MIN. INDICES



FEBRUARY 1975 DATA

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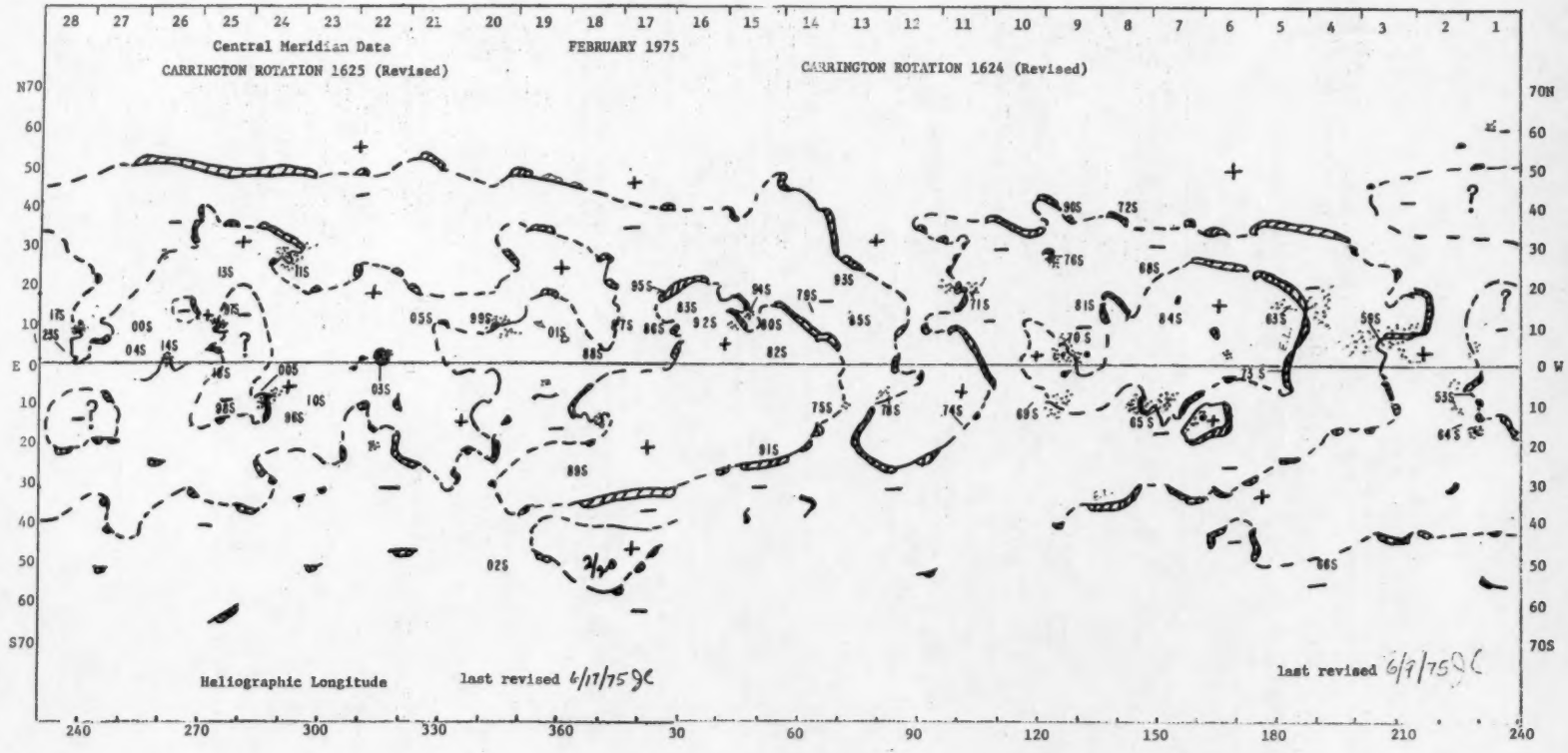
Abbreviated Calendar Record	15-22
Regional Flare Index (not available because of computer conversion problems)	

ABBREVIATED CALENDAR RECORD

FEBRUARY 1975



15
Feb 75

Feb. 1, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 37D — Kp: 3+ | 3o | 5- | 5- | 5o | 4+ | 4+ | 3-

sc

Aurora — USSR, W.E.

Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Rz: 0 10cm flux: 73 Flare: 0/24.0 Ca: 3.2 Ip: 0 Ig: 6

Solar Regions Sunspots: (13453) S09 13464 S15

Feb. 2, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 23 — Kp: 5- | 4+ | 4- | 4o | 4- | 3o | 4- | 2o

sc

Aurora — USSR, W.E.: ϕ = 59° 1400-1500(R1A2)

Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Rz: 22 10cm flux: 74 Flare: 1/23.3 Ca: 4.6 Ip: 0 Ig: 7

Solar Regions Sunspots

Feb. 3, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 12 — Kp: 3- | 4- | 3o | 2o | 3o | 2+ | 2o | 1+

sc

Aurora — USSR, W.E.

Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Rz: 28 10cm flux: 76 Flare: 12/24.0 Ca: 66 Ip: 0 Ig: 5

Solar Regions Sunspots: 13459 N06 (2) N07

Feb. 4, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 10Q — Kp: 2+ | 3- | 1+ | 1+ | 3o | 3- | 2+ | 3o

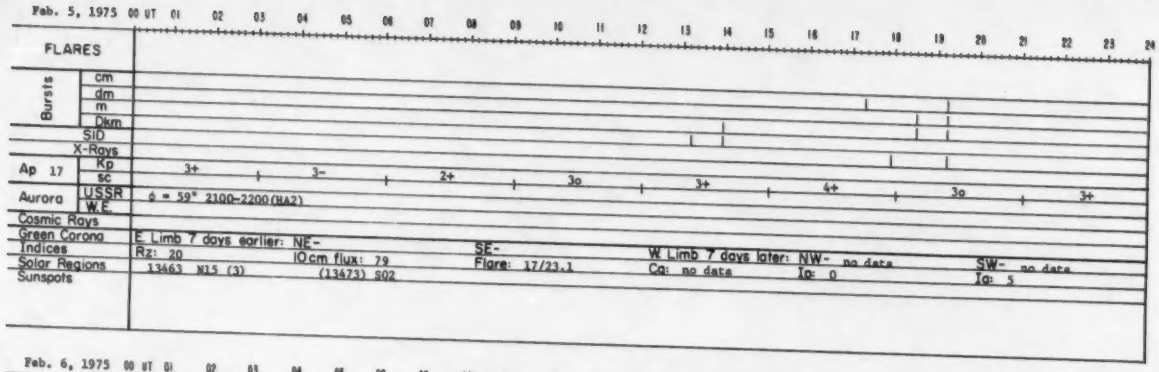
sc

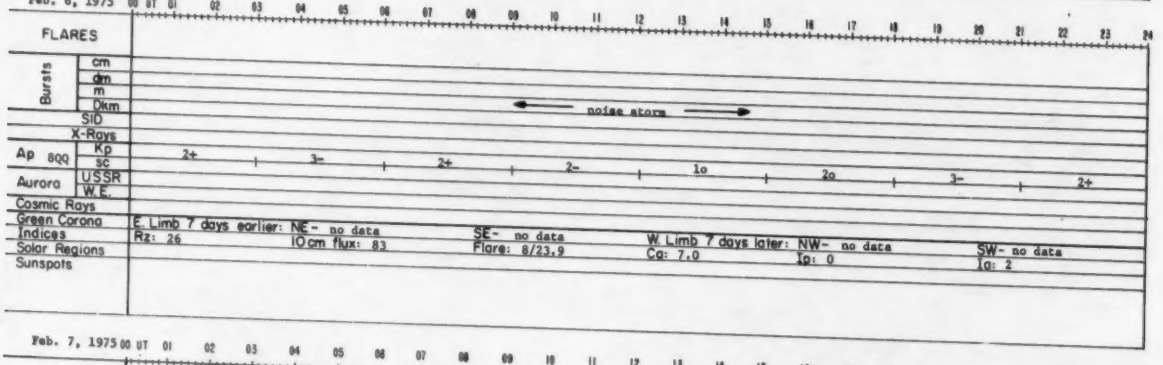
Aurora — USSR, W.E.

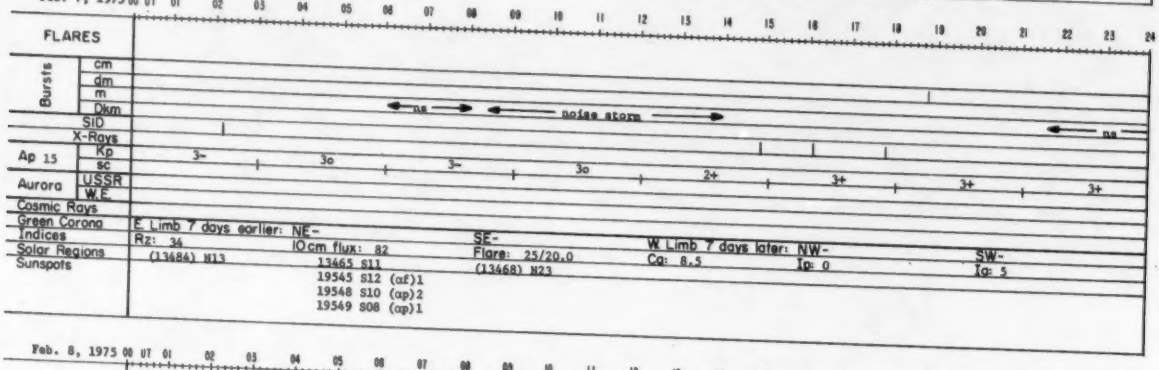
Cosmic Rays

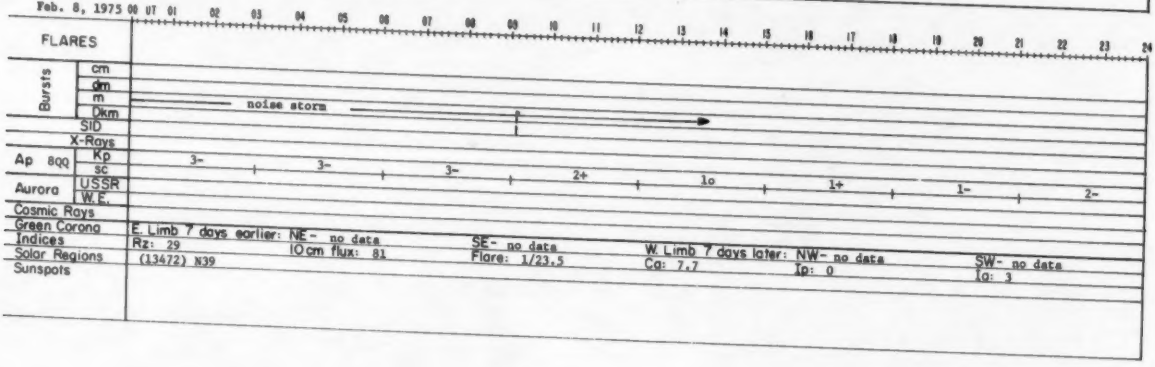
Green Corona Indices: E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-
Rz: 27 10cm flux: 78 Flare: 1/24.0 Ca: no data Ip: 0 Ig: 3

Solar Regions Sunspots: (13466) S48


Feb. 5, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 17
Kp
sc
3+ 3- 2+ 3o 3+ 4+ 3o 3+
Aurora
USSR
W.E.
φ = 59° 2100-2200 (HA2)
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E Limb 7 days earlier: NE-
Rz: 20
10cm flux: 79
13463 N15 (3)
(13473) S02
SE-
Flare: 17/23.1
W Limb 7 days later: NW- no data
Cq: no data
Ip: 0
SW- no data
Ig: 5


Feb. 6, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 8QQ
Kp
sc
2+ 3- 2+ 2- 1o 2o 3- 2+
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E Limb 7 days earlier: NE- no data
Rz: 26
10cm flux: 83
SE- no data
Flare: 8/23.9
W Limb 7 days later: NW- no data
Cq: 7.0
Ip: 0
SW- no data
Ig: 2


Feb. 7, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
ns
noise storm
ns
SID
X-Rays
Ap 15
Kp
sc
3- 3o 3- 3o 2+ 3+ 3+ 3+
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E Limb 7 days earlier: NE-
Rz: 34
10cm flux: 82
(13484) N13
13465 S11
19545 S12 (af)1
19548 S10 (ap)2
19549 S08 (ap)1
SE-
Flare: 25/20.0
(13468) N23
W Limb 7 days later: NW-
Cq: 8.5
Ip: 0
SW-
Ig: 5


Feb. 8, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
noise storm
SID
X-Rays
Ap 8QQ
Kp
sc
3- 3- 3- 2+ 1o 1+ 1- 2-
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
Indices
Solar Regions
Sunspots
E Limb 7 days earlier: NE- no data
Rz: 29
10cm flux: 81
(13472) N39
SE- no data
Flare: 1/23.5
W Limb 7 days later: NW- no data
Cq: 7.7
Ip: 0
SW- no data
Ig: 3

Feb. 9, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 11Q — Kp: 4o | 3o | 2+ | 0o | 0+ | 2- | 2+ | 4-

sc

Aurora — USSR

W.E. ϕ = 60° 2350-0200 (glow) visible between cloud western Scotland

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- no data; SE- no data; W. Limb 7 days later: NW- no data; SW- no data

Indices — Rz: 22; 10cm flux: 79; Flare: 0/23.7; Ca: 10.6; Ip: 0; Ig: 2

Solar Regions — (13481) N13; (13490) N39; 13470 N04; 13476 N26

Sunspots — 19546 N03 βp

Feb. 10, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m — noise storm; Dkm

SID

X-Rays

Ap 38D — Kp: 5- | 5o | 5- | 3o | 4+ | 5- | 4o | 6-

sc

Aurora — USSR ϕ = 60° 2100-2400(HP1)

W.E. ϕ = 60° 0000-0200 (glow) visible between cloud western Scotland

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- no data; SE- no data; W. Limb 7 days later: NW- no data; SW- no data

Indices — Rz: 18; 10cm flux: 79; Flare: 0/20.8; Ca: 10.1; Ip: 0; Ig: 5

Solar Regions — 13469 S10

Sunspots

Feb. 11, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m — noise storm; Dkm

SID

X-Rays

Ap 36D — Kp: 5+ | 4o | 4- | 3+ | 4- | 5o | 5o | 5o

sc

Aurora — USSR ϕ = 59° 1500-2200(HA2) and 2400(R_2R2); ϕ = 60° 1800-2300(HA1)

W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE-; SE-; W. Limb 7 days later: NW- no data; SW- no data

Indices — Rz: 13; 10cm flux: 77; Flare: 12/18.1; Ca: 7.4; Ip: 0; Ig: 5

Solar Regions — 13471 N18 (A); (13474) S17

Sunspots — (19547) N18 αf

Feb. 12, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m — noise storm; Dkm

SID

X-Rays

Ap 35D — Kp: 4+ | 4+ | 5- | 5- | 4- | 5- | 5- | 5-

sc

Aurora — USSR ϕ = 58° 1500-1600 and 1900(HP1); ϕ = 60° 1800-1900(R_1B1)

W.E. ϕ = 60° 2150 (glow) visible between cloud central Scotland

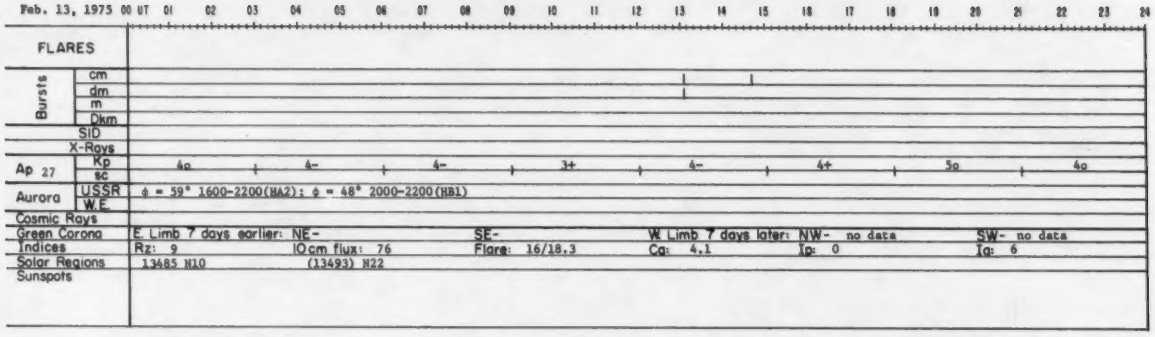
Cosmic Rays

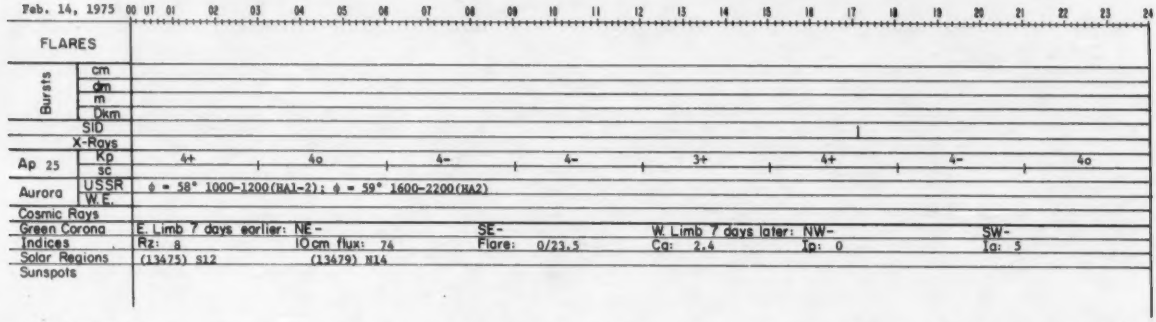
Green Corona — E. Limb 7 days earlier: NE-; SE-; W. Limb 7 days later: NW- no data; SW- no data

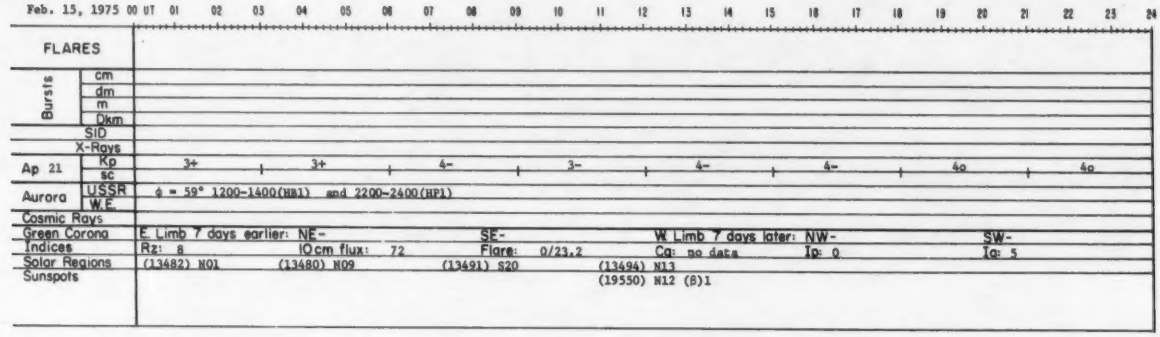
Indices — Rz: 18; 10cm flux: 77; Flare: 0/23.0; Ca: 7.7; Ip: 0; Ig: 6

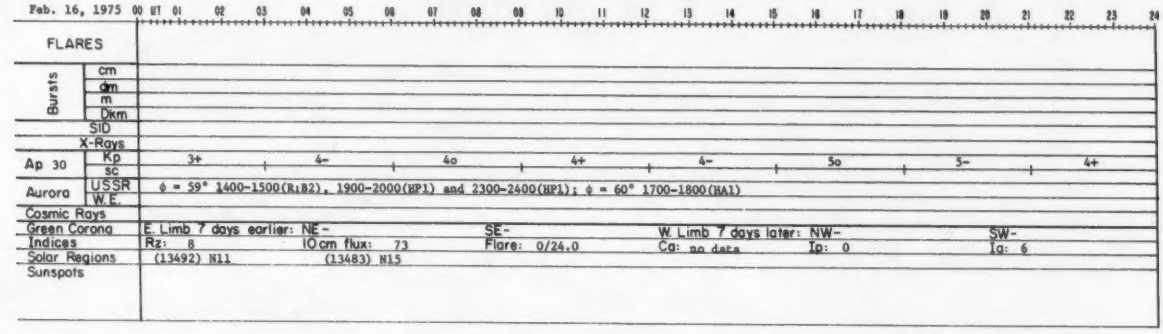
Solar Regions — 13478 S09 (2)

Sunspots


Feb. 13, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 27 Kp 4o 4- 4- 3+ 4- 4+ 5o 4o
sc
Aurora USSR ϕ = 59° 1600-2200(HA2); ϕ = 48° 2000-2200(HB1)
W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices Rz: 9 10cm flux: 76 Flare: 16/18.3 Ca: 4.1 Ip: 0 Ia: 6
Solar Regions 13485 N10 (13493) N22
Sunspots


Feb. 14, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 25 Kp 4+ 4o 4- 4- 3+ 4+ 4- 4o
sc
Aurora USSR ϕ = 58° 1000-1200(HA1-2); ϕ = 59° 1600-2200(HA2)
W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices Rz: 8 10cm flux: 74 Flare: 0/23.5 Ca: 2.4 Ip: 0 Ia: 5
Solar Regions (13475) S12 (13479) N14
Sunspots


Feb. 15, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 21 Kp 3+ 3+ 4- 3- 4- 4- 4o 4o
sc
Aurora USSR ϕ = 59° 1200-1400(HB1) and 2200-2400(HP1)
W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices Rz: 8 10cm flux: 72 Flare: 0/23.2 Ca: no data Ip: 0 Ia: 5
Solar Regions (13482) N01 (13480) N09 (13491) S20 (13494) N13 (19550) N12 (8)1
Sunspots


Feb. 16, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 30 Kp 3+ 4- 4o 4+ 4- 5o 5- 4+
sc
Aurora USSR ϕ = 59° 1400-1500(R1B2), 1900-2000(HP1) and 2300-2400(HP1); ϕ = 60° 1700-1800(HA1)
W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices Rz: 8 10cm flux: 73 Flare: 0/24.0 Ca: no data Ip: 0 Ia: 6
Solar Regions (13492) N11 (13483) N15
Sunspots

Feb. 17, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 14 — Kp: 3- | 3o | 3o | 3+ | 3o | 3o | 3- | 3-

sc

Aurora: USSR, W.E.

Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW no data* SW-

Rz: 0 10 cm flux: 71 Flare: 0/23.8 Cg: no data Ip: 0 Ia: 5

Solar Regions: (13495) N17 (13486) N10 (13487) N08

Sunspots

Remarks: * 270°-275° and 290°-355°

Feb. 18, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 15 — Kp: 4o | 4o | 3o | 2o | 3+ | 2o | 2+ | 3-

sc

Aurora: USSR, W.E. — ϕ = 60° 0050-0200 (glow) central Scotland

Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-

Rz: 0 10 cm flux: 70 Flare: 0/24.0 Cg: no data Ip: 0 Ia: 2

Solar Regions: (13488) N03 (13489) S26

Sunspots

Feb. 19, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm — 1, m — 1, Dkm

SID

X-Rays

Ap 110 — Kp: 2o | 3o | 3o | 3- | 3- | 1o | 3- | 3-

sc

Aurora: USSR, W.E.

Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-

Rz: 0 10 cm flux: 72 Flare: 0/24.0 Cg: 0.5 Ip: 0 Ia: 2

Solar Regions: (13501) N06

Sunspots

Feb. 20, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm, dm, m, Dkm

SID

X-Rays

Ap 800 — Kp: 3o | 2- | 2+ | 3- | 1o | 1- | 2o | 2+

sc

Aurora: USSR, W.E.

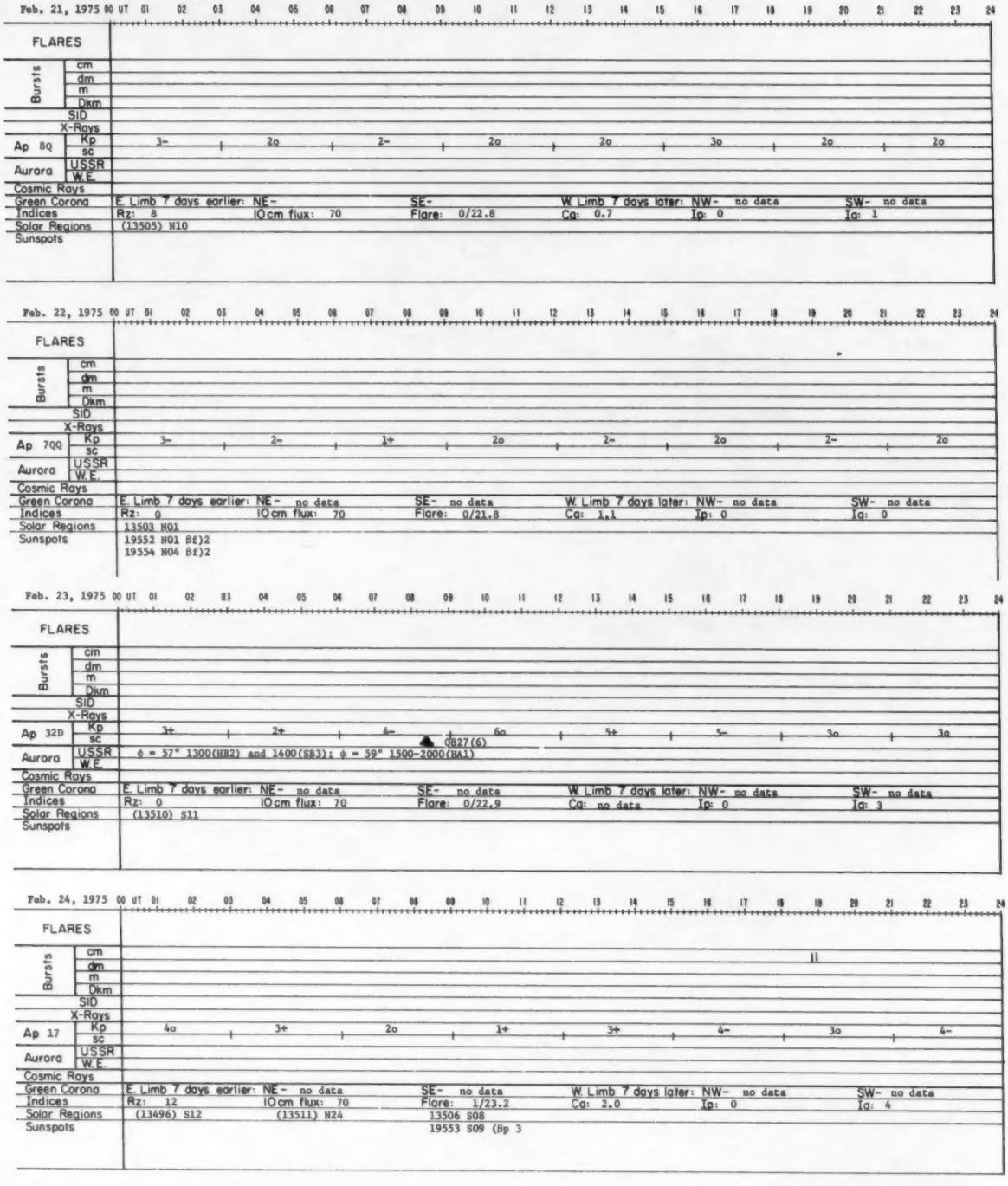
Cosmic Rays

Green Corona Indices: E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-

Rz: 7 10 cm flux: 71 Flare: 1/21.5 Cg: 1.0 Ip: 0 Ia: 3

Solar Regions: (13502) S50 13499 N09

Sunspots: 19551 N10 Bf)2


Feb. 21, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 80 Kp 3- 2o 2- 2o 2o 3o 2o 2o
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices Rz: 8 10cm flux: 70 Flare: 0/22.8 Ca: 0.7 Ip: 0 Ig: 1
Solar Regions (13505) N10
Sunspots
Feb. 22, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 70 Kp 3- 2- 1+ 2o 2- 2o 2- 2o
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices Rz: 0 10cm flux: 70 Flare: 0/21.8 Ca: 1.1 Ip: 0 Ig: 0
Solar Regions 13503 N01
Sunspots 19552 N01 Bε)2
19554 N04 Bε)2
Feb. 23, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 32 Kp 3+ 2+ 4- 6o 5+ 5- 3o 3o
sc 0827(6)
Aurora USSR ϕ = 57° 1300(HB2) and 1400(SB3); ϕ = 59° 1500-2000(HA1)
W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices Rz: 0 10cm flux: 70 Flare: 0/22.9 Ca: no data Ip: 0 Ig: 3
Solar Regions (13510) S11
Sunspots
Feb. 24, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts cm dm m Dkm
SID
X-Rays
Ap 17 Kp 4o 3+ 2o 1+ 3+ 4- 3o 4-
sc
Aurora USSR W.E.
Cosmic Rays
Green Corona E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices Rz: 12 10cm flux: 70 Flare: 1/23.2 Ca: 2.0 Ip: 0 Ig: 4
Solar Regions (13496) S12 (13511) N24 13506 S08
Sunspots 19553 S09 (Bp 3

Feb. 25, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 20	Kp	4o 5- 4o 3- 4o 3o 2o 2+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona Indices	E Limb 7 days earlier: NE- no data; SE- no data; W Limb 7 days later: NW-; SW-	
	Rz: 9; 10cm flux: 71; Flare: 0/21.2; Cg: no data; Ig: 0; Ig: 5	
Solar Regions Sunspots	(13498) S13; (13513) N24; (13516) S02; 13497 N10	

Feb. 26, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	1
	Dkm	
SID		
X-Rays		
Ap 90	Kp	3o 4- 2+ 2o 1+ 1+ 1+ 0+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona Indices	E Limb 7 days earlier: NE- no data; SE- no data; W Limb 7 days later: NW-; SW-	
	Rz: 0; 10cm flux: 70; Flare: 0/23.9; Cg: 1.5; Ig: 0; Ig: 4	
Solar Regions Sunspots	(13514) N01	

Feb. 27, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 500	Kp	1- 2o 2+ 0+ 1+ 1+ 0+ 1+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona Indices	E Limb 7 days earlier: NE- no data; SE- no data; W Limb 7 days later: NW- no data; SW- no data	
	Rz: 0; 10cm flux: 71; Flare: 2/24.0; Cg: 0.9; Ig: 0; Ig: 4	
Solar Regions Sunspots	(13500) N09; (13504) N02	

Feb. 28, 1975 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 12	Kp	2o 3- 3- 1+ 2o 3- 4- 4-
	sc	
Aurora	USSR	ϕ = 60° 2000(R1B3)
	W.E.	ϕ = 60° 2250-0200 (glow) central Scotland
Cosmic Rays		
Green Corona Indices	E Limb 7 days earlier: NE-; SE-; W Limb 7 days later: NW-; SW-	
	Rz: 0; 10cm flux: 70; Flare: 0/23.5; Cg: 1.0; Ig: 0; Ig: 2	
Solar Regions Sunspots	(13523) N03; (13517) N12; (19555) N11 (Bp)2	

Note: Regional Flare Indices not available because of problems with computer conversion.

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